

# Product Datasheet

## RPE65 Antibody (401.8B11.3D9) - Azide and BSA Free NBP2-80931

Unit Size: 0.2 ml

Aliquot and store at -20C or -80C. Avoid freeze-thaw cycles.

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**NBP2-80931**

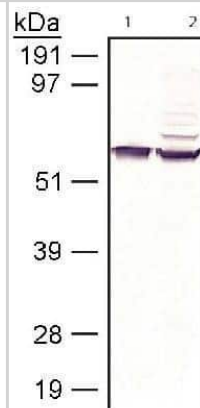
RPE65 Antibody (401.8B11.3D9) - Azide and BSA Free

| Product Information         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
|-----------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Unit Size                   | 0.2 ml                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| Concentration               | 1 mg/ml                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Storage                     | Aliquot and store at -20C or -80C. Avoid freeze-thaw cycles.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Clonality                   | Monoclonal                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Clone                       | 401.8B11.3D9                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Preservative                | No Preservative                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| Isotype                     | IgG1 Kappa                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Purity                      | Protein G purified                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| Buffer                      | PBS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Target Molecular Weight     | 65 kDa                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| Product Description         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| Description                 | Novus Biologicals Mouse RPE65 Antibody (401.8B11.3D9) - Azide and BSA Free (NB100-355) is a monoclonal antibody validated for use in IHC, WB, Flow, ICC/IF and IP. All Novus Biologicals antibodies are covered by our 100% guarantee.                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| Host                        | Mouse                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Gene ID                     | 6121                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Gene Symbol                 | RPE65                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Species                     | Human, Mouse, Rat, Porcine, Bovine, Canine, Chicken, Primate, Xenopus                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Reactivity Notes            | Based on immunogen sequence similarity, this RPE65 Antibody (401.8B11.3D9) is predicted to react with most Birds species (89%).                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| Immunogen                   | This RPE65 Antibody (401.8B11.3D9) - Azide and BSA Free was developed against bovine RPE65 microsomal membrane proteins. [UniProt# Q28175]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Product Application Details |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| Applications                | Western Blot, Immunohistochemistry-Paraffin, Flow Cytometry, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry, Immunohistochemistry-Frozen, Immunoprecipitation, CyTOF-ready                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Recommended Dilutions       | Western Blot 1:500 - 1:1000, Flow Cytometry, Immunohistochemistry 1:250, Immunocytochemistry/ Immunofluorescence 1:10-1:500, Immunoprecipitation reported by customer review, Immunohistochemistry-Paraffin 1:250-1:500, Immunohistochemistry-Frozen 1:250, CyTOF-ready                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Application Notes           | For Western blot, this antibody has been validated in lysates of bovine RPE membrane and COS7 cells transfected with human RPE65, and in both samples, the antibody recognized a band at ~65 kDa, representing RPE65 protein. Note:- Hamel et al. have reported that in cultured bovine RPE cells, the levels of RPE65 are undetectable in WB after day 14, however, the mRNA levels are detectable by Northern for at least 7 weeks (PMID: 8340400). The observed molecular weight of the protein may vary from the listed predicted molecular weight due to post translational modifications, post translation cleavages, relative charges, and other experimental factors. This antibody is CyTOF ready. |

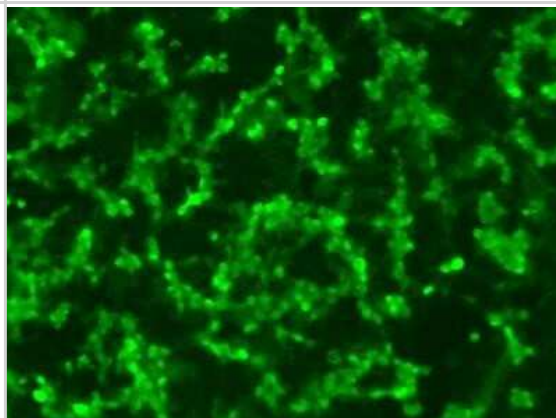


## Images

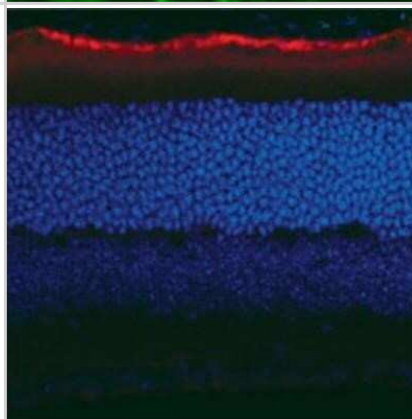
Western Blot: RPE65 Antibody (401.8B11.3D9) - Azide and BSA Free [NBP2-80931] - WB analysis of RPE65 in 20ug lysate of COS7 cells expressing recombinant Human RPE65 (Lane 1) and 5ug of Bovine retinal pigment epithelium membrane fraction (Lane 2). Blot processed for detection with alkaline phosphatase conjugated goat-anti Mouse IgG secondary antibody and NBT/BCIP substrate. Image from the standard format of this antibody.



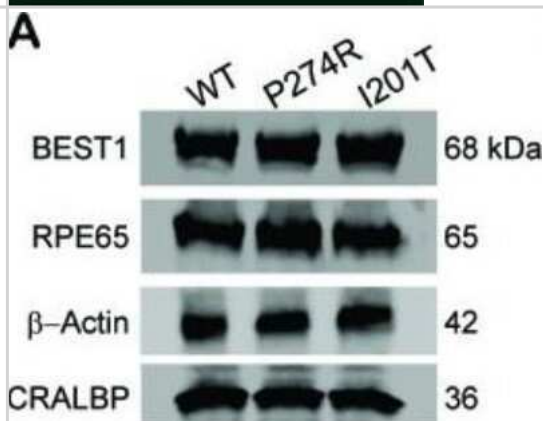
Immunocytochemistry/Immunofluorescence: RPE65 Antibody (401.8B11.3D9) - Azide and BSA Free [NBP2-80931] - ICC-IF analysis of cultured ARPE19 cells, a spontaneously arising human retinal pigment epithelia cell line - 10 minutes fixation in 4% PFA, 10 minutes permeabilization in PBS containing 0.2% Triton X-100 (PBS-T), 1 hour blocking in 10% normal goat serum containing 1% BSA in PBS-T, 1:100 primary antibody dilution in PBS, ON 4C incubation. Image from the standard format of this antibody.



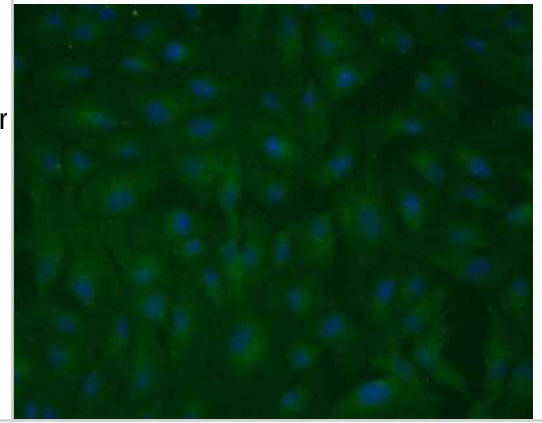
Immunohistochemistry-Frozen: RPE65 Antibody (401.8B11.3D9) - Azide and BSA Free [NBP2-80931] - Staining of RPE65 in a cryosection of mouse retina tissue using RPE65 antibody (clone 401.8B11.3D9). Image from the standard format of this antibody.



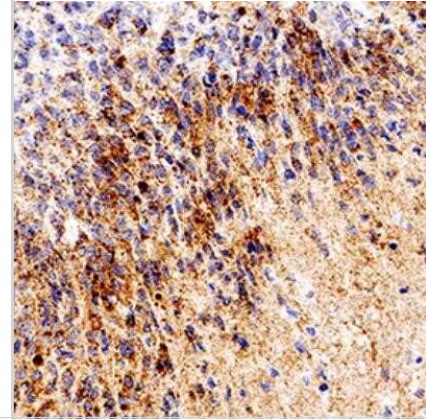
Western Blot: RPE65 Antibody (401.8B11.3D9) - Azide and BSA Free [NBP2-80931] - Subcellular localization of BEST1 and surface Ca<sup>2+</sup>-dependent Cl<sup>-</sup> current in patient-derived iPSC-RPEs. Western blots show similar BEST1 expression levels in WT and patient-derived iPSC-RPEs. Each sample was from one cell lysis (BEST1 and beta-actin, RPE65 and CRALBP were on two gels, respectively). Image collected and cropped by CiteAb from the following publication (<https://elifesciences.org/articles/29914>), licensed under a CC-BY license. Image from the standard format of this antibody.



Immunocytochemistry/Immunofluorescence: RPE65 Antibody (401.8B11.3D9) - Azide and BSA Free [NBP2-80931] - ARPE-19 monolayer on glass substrate. Fixative Methanol Blocking Goat Serum. Dilution 1:250. Incubation 1h RT. This image was submitted via customer Review. Image from the standard format of this antibody.



Immunohistochemistry-Paraffin: RPE65 Antibody (401.8B11.3D9) - Azide and BSA Free [NBP2-80931] - Analysis of FFPE human glioblastoma tissue section using 1:500 dilution of RPE65 [401.8B11.3D9] antibody on a Bond Rx autostainer (Leica Biosystems). The assay involved 20 minutes of heat induced antigen retrieval (HIER) with 10mM sodium citrate buffer (p



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**Products Related to NBP2-80931**

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|                  |                                                         |
|------------------|---------------------------------------------------------|
| HAF007           | Goat anti-Mouse IgG Secondary Antibody [HRP]            |
| NB720-B          | Rabbit anti-Mouse IgG (H+L) Secondary Antibody [Biotin] |
| NBP1-43319-0.5mg | Mouse IgG1 Kappa Isotype Control (P3.6.2.8.1)           |
| 1129-ER-050      | ErbB2/Her2 [Unconjugated]                               |

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**Limitations**

This product is for research use only and is not approved for use in humans or in clinical diagnosis. Primary Antibodies are guaranteed for 1 year from date of receipt.

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