

# Product Datasheet

## GFP Antibody (9F9.F9) [Biotin]

### NB110-40670

Unit Size: 0.5 mg

Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.

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**NB110-40670**

GFP Antibody (9F9.F9) [Biotin]

| Product Information |                                                                                                                                    |
|---------------------|------------------------------------------------------------------------------------------------------------------------------------|
| Unit Size           | 0.5 mg                                                                                                                             |
| Concentration       | Please see the vial label for concentration. If unlisted please contact technical services.                                        |
| Storage             | Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.                                             |
| Clonality           | Monoclonal                                                                                                                         |
| Clone               | 9F9.F9                                                                                                                             |
| Preservative        | 0.01% Sodium Azide                                                                                                                 |
| Isotype             | IgG1 Kappa                                                                                                                         |
| Conjugate           | Biotin                                                                                                                             |
| Purity              | Protein A purified                                                                                                                 |
| Buffer              | 0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2, 10 mg/mL Bovine Serum Albumin (BSA) - Immunoglobulin and Protease free |

| Product Description     |                                                                                                                                                                                                                                                                                                                                                                                                                        |
|-------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Description             | <p>For extended storage aliquot contents and freeze at -20C or below. Avoid cycles of freezing and thawing. Centrifuge product if not completely clear after standing at room</p> <p>GFP Biotin Conjugated Antibody was prepared from tissue culture supernatant by Protein A affinity chromatography. Assay by Immunoelectrophoresis resulted in a single precipitin arc against anti-biotin and anti-Mouse Serum</p> |
| Host                    | Mouse                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Species                 | Non-species specific                                                                                                                                                                                                                                                                                                                                                                                                   |
| Reactivity Notes        | <p>Reactivity is observed against recombinant Green Fluorescent Protein from Aequorea victoria by both Western blot and ELISA. No reaction is seen against RFP.</p> <p>Recognizes fusion proteins in Drosophila, reactivity reported in scientific literature (PMID: 26586808). Human reactivity reported in scientific literature (PMID: 28198010).</p>                                                               |
| Specificity/Sensitivity | Reactivity is observed against recombinant Green Fluorescent Protein from Aequorea victoria by both Western blot and ELISA. No reaction is seen against RFP.                                                                                                                                                                                                                                                           |
| Immunogen               | Recombinant Green Fluorescent Protein (GFP) fusion protein corresponding to the full length amino acid sequence (246 aa) derived from the jellyfish Aequorea victoria.                                                                                                                                                                                                                                                 |

| Product Application Details |                                                                                                                                                        |
|-----------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------|
| Applications                | Western Blot, ELISA, Immunohistochemistry, Immunohistochemistry-Paraffin, Knockdown Validated                                                          |
| Recommended Dilutions       | Western Blot 1:2000-1:10000, ELISA 1:50000-1:200000, Immunohistochemistry 1:1000-1:5000, Immunohistochemistry-Paraffin 1:10-1:500, Knockdown Validated |



**Application Notes**

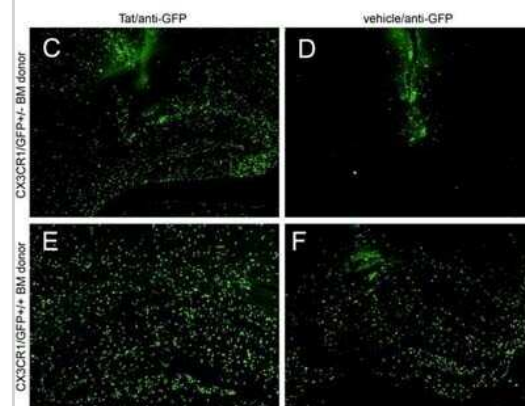
This product is designed to detect enhanced GFP and GFP containing recombinant proteins. Tested in E, WB, IHC. This antibody can be used to detect GFP by ELISA (sandwich or capture) for the direct binding of antigen. Biotin conjugated monoclonal anti-GFP is well suited to titrate GFP in a sandwich ELISA in combination with polyclonal anti-GFP as the capture antibody. Only use the monoclonal form for the detection of enhanced or recombinant GFP. Polyclonal anti-GFP detects all variants of GFP tested to date. The biotin conjugated detection antibody is typically used with streptavidin conjugated HRP or other streptavidin conjugates. The use of polyclonal anti-GFP results in significant amplification of signal when fluorochrome conjugated polyclonal anti-GFP is used relative to the fluorescence of GFP alone. For immunoblotting use either alkaline phosphatase or peroxidase conjugated anti-GFP to detect GFP or GFP containing proteins on western blots. Optimal titers for applications should be determined by the researcher.

**Images**

Western Blot: GFP Antibody (9F9.F9) [Biotin] [NB110-40670] - Lane 1: 50ng of GFP. Lane 2: none. Primary antibody: none. Secondary antibody: Anti-GFP (MOUSE) Monoclonal Antibody Biotin Conjugated secondary antibody was used at 1:5000 in Blocking Buffer for Fluorescent Western Blotting for 45 min at RT. HRP Streptavidin was used at 1:40,000 in incubated with blocking buffer for 30 min at 20C. Block: 5% Biotto 30 min at 20C. Predicted/Observed size: 28 kDa for GFP. Other band(s): none.



Immunohistochemistry: GFP Antibody (9F9.F9) [Biotin] [NB110-40670] - Used 1:5000 As referenced in: Lu S-M, Tremblay M-E, King IL, Qi J, Reynolds HM, et al. (2011) HIV-1 Tat-Induced Microgliosis and Synaptic Damage via Interactions between Peripheral and Central Myeloid Cells. PLoS ONE 6(9): e23915. doi:10.1371/journal.pone.0023915



## Publications

Hartl I, Brumovska V, Striedner Y et al. Measurement of FGFR3 signaling at the cell membrane via total internal reflection fluorescence microscopy to compare the activation of FGFR3 mutants The Journal of biological chemistry 2022-12-26 [PMID: 36581204]

Baumgart F, Arnold AM, Leskova K et al. Varying label density allows artifact-free analysis of membrane-protein nanoclusters Nat Methods. 2016-08-01 [PMID: 27295310]

Details:

Citation used the Biotin format of this antibody.

Fulop G, Brameshuber M, Arnold AM et al. Determination of the Membrane Environment of CD59 in Living Cells Biomolecules May 17 2018 12:00AM [PMID: 29772810] Biomolecules. 2018-05-17 [PMID: 29772810]

Details:

Citation using the Biotin form of this antibody.

Della Pia EA, Martinez KL. Single domain antibodies as a powerful tool for high quality surface plasmon resonance studies PLoS ONE 2015-03-31 [PMID: 25822527]

Details:

This citation used the Biotin version of this antibody.

Malagelada C, Jin ZH, Greene LA. RTP801 Is Induced in Parkinson's Disease Mediates Neuron Death by Inhibiting Akt Phosphorylation/Activation. J Neurosci;28(53):14363-14371. 2008-01-01 [PMID: 12923176]





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### **Products Related to NB110-40670**

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|                |                                             |
|----------------|---------------------------------------------|
| NBP2-29370     | Streptavidin Native Protein                 |
| IC002B         | Mouse IgG1 Isotype Control (11711) [Biotin] |
| NB100-56401PEP | GFP Antibody Blocking Peptide               |
| NBC1-22949     | Recombinant GFP Protein                     |

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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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