

# Product Datasheet

## Optineurin Antibody - BSA Free NBP1-84682

Unit Size: 0.1 ml

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

[www.novusbio.com](http://www.novusbio.com)



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Updated 2/21/2025 v.20.1

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**NBP1-84682**

Optineurin Antibody - BSA Free

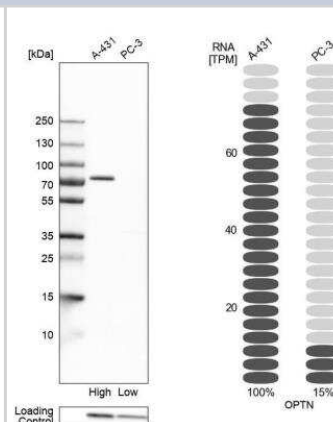
Product Information	
Unit Size	0.1 ml
Concentration	Concentrations vary lot to lot. See vial label for concentration. If unlisted please contact technical services.
Storage	Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.
Clonality	Polyclonal
Preservative	0.02% Sodium Azide
Isotype	IgG
Purity	Immunogen affinity purified
Buffer	PBS (pH 7.2) and 40% Glycerol

Product Description	
Host	Rabbit
Gene ID	10133
Gene Symbol	OPTN
Species	Human, Mouse
Reactivity Notes	Reactivity reported in mouse retina from a verified customer review.
Immunogen	This antibody was developed against Recombinant Protein corresponding to amino acids: LGIVSELQLKLNSSGSSSEDSFVEIRMAEGEAEGSVKEIKHSPGPTRTRVSTGTAL SKYRSRSADGAKNYFEHEELTVSQQLLCLREGNQKVERLEVALKEAKERVSDF EKKTSNRSEIETQTEGSTEKENDEEK

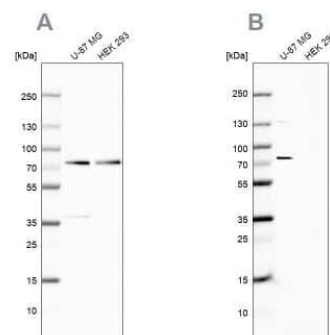
Product Application Details	
Applications	Western Blot, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry, Immunohistochemistry-Frozen, Immunohistochemistry-Paraffin
Recommended Dilutions	Western Blot 0.04-0.4 ug/ml, Immunohistochemistry 1:1000 - 1:2500, Immunocytochemistry/ Immunofluorescence 0.25-2 ug/ml, Immunohistochemistry-Paraffin 1:1000 - 1:2500, Immunohistochemistry-Frozen Validated from a verified customer review.
Application Notes	ICC/IF Fixation Permeabilization: Use PFA/Triton X-100. IHC-Paraffin HIER pH6 retrieval is recommended.

**Images**

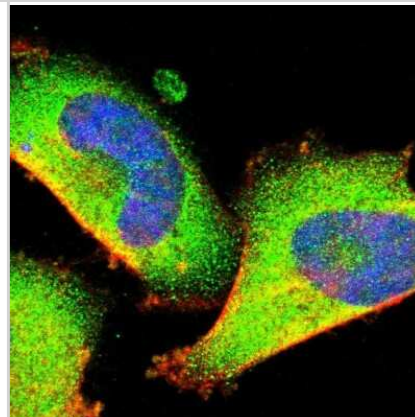
Western Blot: Optineurin Antibody [NBP1-84682] - Analysis in human cell lines A-431 and PC-3. Corresponding RNA-seq data are presented for the same cell lines. Loading control: Anti-PPIB.



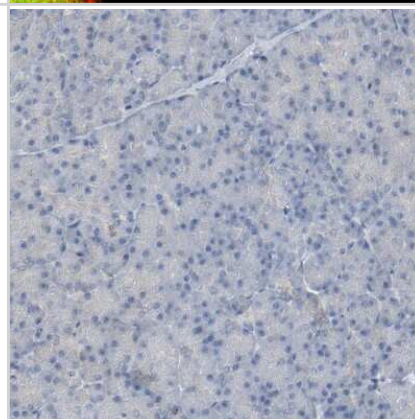
Western Blot: Optineurin Antibody [NBP1-84682] - Analysis using Anti-OPTN antibody NBP1-84682 (A) shows similar pattern to independent antibody NBP1-84683 (B).



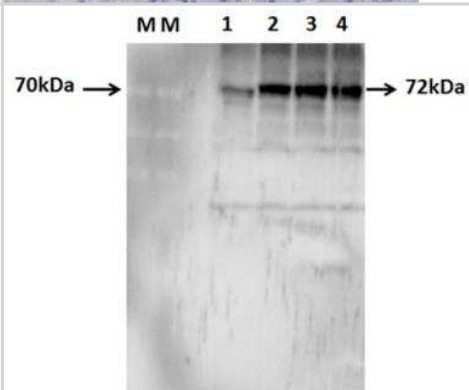
Immunocytochemistry/Immunofluorescence: Optineurin Antibody [NBP1-84682] - Staining of human cell line U-251 MG shows localization to cytosol. Antibody staining shown in green.



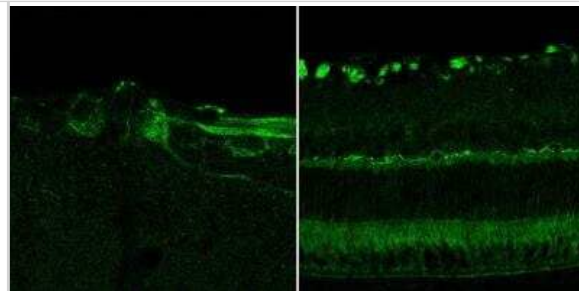
Immunohistochemistry-Paraffin: Optineurin Antibody [NBP1-84682] - Staining of human pancreas shows no cytoplasmic positivity in exocrine glandular cells as expected.



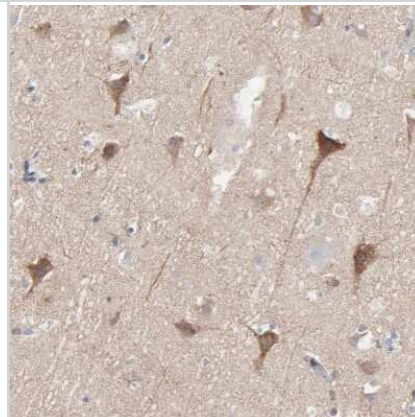
Western Blot: Optineurin Antibody [NBP1-84682] - Effect of mitochondrial fission protein, Drp1 (FL) and mutant Tau on Optineurin expression in N2a (M) cells. Lanes: M. Ladder M. Ladder 1. N2a cells 2. N2a cells + mutant Tau 3. N2a cells + mutant tau + Drp1 full length + mutant Tau. This image was submitted via customer review.



Immunohistochemistry-Frozen: Optineurin Antibody [NBP1-84682] - Image and review of Optineurin antibody on mouse retina (frozen sections) by Celia McKee, Duke University. 20X and 100X.



Immunohistochemistry-Paraffin: Optineurin Antibody [NBP1-84682] - Staining of human cerebral cortex shows moderate cytoplasmic positivity in neuronal cells.



Immunohistochemistry-Paraffin: Optineurin Antibody [NBP1-84682] - Staining of human skin shows moderate cytoplasmic positivity in epidermal cells.



Immunohistochemistry-Paraffin: Optineurin Antibody [NBP1-84682] - Staining of human placenta shows moderate to strong cytoplasmic positivity in trophoblastic cells.



## Publications

Zhi F, Li B, Zhang C et al. NLRP6 potentiates PI3K/AKT signalling by promoting autophagic degradation of p85? to drive tumorigenesis Nat Commun 2023-09-28 [PMID: 37770465] (Immunohistochemistry, Western Blot, Immunocytochemistry/ Immunofluorescence)

Huang KC, Gomes C, Shiga Y et al. Autophagy disruption reduces mTORC1 activation leading to retinal ganglion cell neurodegeneration associated with glaucoma bioRxiv : the preprint server for biology 2023-01-04 [PMID: 36711831] (ICC/IF, WB, Human)

### Details:

Dilution used in WB 1:1,000, ICC 1:200

Smith AM, Sewell GW, Levine AP et al. Disruption of macrophage pro-inflammatory cytokine release in Crohns disease is associated with reduced optineurin expression in a subset of patients. Immunology 2015-01-01 [PMID: 24943399] (WB, Human)





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### **Products Related to NBP1-84682**

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NBP1-84682PEP	Optineurin Recombinant Protein Antigen
HAF008	Goat anti-Rabbit IgG Secondary Antibody [HRP]
NB7160	Goat anti-Rabbit IgG (H+L) Secondary Antibody [HRP]
NBP2-24891	Rabbit IgG Isotype Control

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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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