

Product Datasheet

OPA1 Antibody (1284B) - BSA Free NBP2-59770

Unit Size: 0.1 mg

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

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NBP2-59770

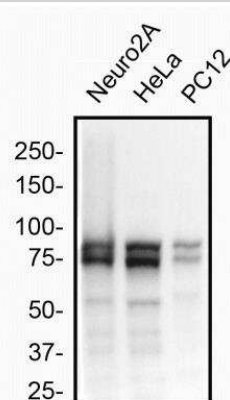
OPA1 Antibody (1284B) - BSA Free

Product Information	
Unit Size	0.1 mg
Concentration	1.0 mg/ml
Storage	Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.
Clonality	Monoclonal
Clone	1284B
Preservative	0.02% Sodium Azide
Isotype	IgG
Purity	Protein A or G purified
Buffer	PBS
Product Description	
Host	Rabbit
Gene ID	4976
Gene Symbol	OPA1
Species	Human, Mouse, Rat
Immunogen	A synthetic peptide made to an internal region within residues 500-600 of human OPA1. [Swiss-Prot# O60313]
Product Application Details	
Applications	Western Blot, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry, Immunohistochemistry-Paraffin
Recommended Dilutions	Western Blot 2 ug/ml, Immunohistochemistry 1:1000, Immunocytochemistry/ Immunofluorescence 5 ug/ml, Immunohistochemistry-Paraffin 1:1000

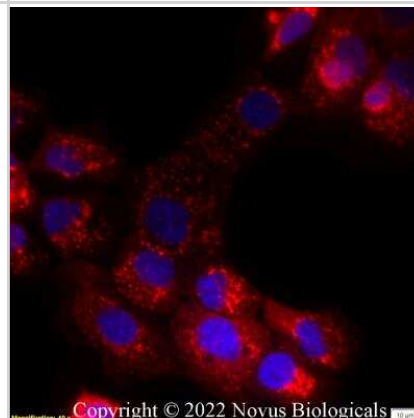


Images

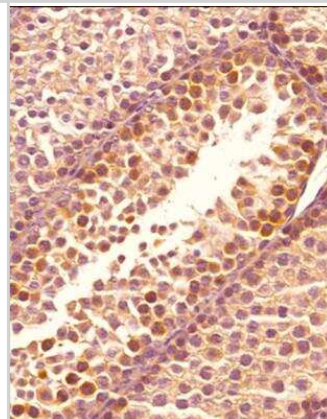
Western Blot: OPA1 Antibody (1284B) [NBP2-59770] - Total protein from Mouse Neuro2A cells, Human HeLa cells and Rat PC12 cells was separated on a 7.5% gel by SDS-PAGE, transferred to PVDF membrane and blocked in 5% non-fat milk in TBST. The membrane was probed with 1.0 ug/ml anti-OPA1 in blocking buffer, and detected with an anti-mouse HRP secondary antibody using chemiluminescence.



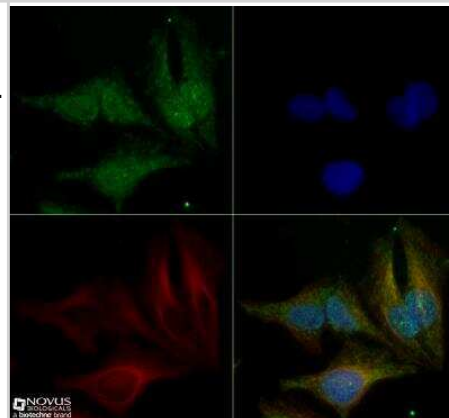
Immunocytochemistry/Immunofluorescence: OPA1 Antibody (1284B) [NBP2-59770] - A431 cells were fixed in 4% paraformaldehyde for 10 minutes and permeabilized in 0.05% Triton X-100 in PBS for 5 minutes. The cells were incubated with OPA1 Antibody [1284B] conjugated to Biotin (NBP2-59770B) at 5 ug/ml for 1 hour at room temperature then detected with Streptavidin conjugated to DyLight 550. Nuclei were counterstained with DAPI (Blue). Cells were imaged using a 40X objective.



Immunohistochemistry-Paraffin: OPA1 Antibody (1284B) [NBP2-59770] - IHC analysis of a formalin fixed paraffin embedded (FFPE) tissue section of mouse testes using OPA1 antibody at 1:1000 dilution. The primary antibody bound to OPA1 antigens in the tissue section was detected using an HRP labeled secondary antibody and DAB reagent. Nuclei of the cells were counterstained with hematoxylin. This OPA1 antibody generated a diffused cytoplasmic staining of OPA1 protein in the tubular epithelial cells, the spermatids/spermatocytes and Leydig's cells.



Immunocytochemistry/Immunofluorescence: OPA1 Antibody (1284B) [NBP2-59770] - HeLa cells were fixed for 10 minutes using 10% formalin and then permeabilized for 5 minutes using 1X TBS + 0.5% Triton X-100. The cells were incubated with anti-OPA1 at 5 ug/ml overnight at 4C and detected with an anti-rabbit DyLight 488 (Green) at a 1:500 dilution. Alpha tubulin (DM1A) NB100-690 was used as a co-stain at a 1:1000 dilution and detected with an anti-mouse DyLight 550 (Red) at a 1:500 dilution. Nuclei were counterstained with DAPI (Blue). Cells were imaged using a 40X objective.



Publications

Ge Y, Shi X, Boopathy S et al. Two forms of Opa1 cooperate to complete fusion of the mitochondrial inner-membrane *Elife* 2020-01-11 [PMID: 31922487]

Vijayan M, Reddy PH Reduced VDAC1, Maintained Mitochondrial Dynamics and Enhanced Mitochondrial Biogenesis in a Transgenic Tau Mouse Model of Alzheimer's Disease *International journal of molecular sciences* 2022-08-02 [PMID: 35955694] (IF/IHC, WB, Mouse)

Details:

WB dilution used 1:1000, IHC dilution used 1:102

Chen K, Chen C, Chen C et al. Bicalutamide Exhibits Potential to Damage Kidney via Destroying Complex I and Affecting Mitochondrial Dynamics *Journal of Clinical Medicine* 2021-12-27 [PMID: 35011880] (WB, Rat)

Bhullar Ks, Shang N, Kerek E Et Al. Mitofusion is required for MOTS-c induced GLUT4 translocation *Scientific reports* 2021-07-12 [PMID: 34253808] (WB)

Grieco J, Allen M, Perry J, et al. Progression-Mediated Changes in Mitochondrial Morphology Promotes Adaptation to Hypoxic Peritoneal Conditions in Serous Ovarian Cancer *Frontiers in Oncology* 2021-01-13 [PMID: 33520711] (WB, Mouse)

Gordillo GM, Biswas A, Singh K et al. Mitochondria as Target for Tumor Management of Hemangioendothelioma *Antioxid. Redox Signal.* 2020-07-28 [PMID: 32597200]

Ruegsegger GN, Manjunatha S, Summer P et al. Insulin deficiency and intranasal insulin alter brain mitochondrial function: a potential factor for dementia in diabetes. *FASEB J.* 2019-01-24 [PMID: 30676773] (WB, Mouse)

Nobis S, Goichon A, Achamrah N et al. Alterations of proteome, mitochondrial dynamic and autophagy in the hypothalamus during activity-based anorexia *Sci Rep* 2018-05-08 [PMID: 29740148] (WB, Mouse)





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NB7160	Goat anti-Rabbit IgG (H+L) Secondary Antibody [HRP]
NBP2-24891	Rabbit IgG Isotype Control
NB110-55290PEP	OPA1 Antibody Blocking Peptide

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