

Product Datasheet

APOO Antibody (2F1) NBP1-28870

Unit Size: 0.1 ml

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

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Updated 1/19/2026 v.20.1

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NBP1-28870

APOO Antibody (2F1)

Product Information	
Unit Size	0.1 ml
Concentration	This product is unpurified. The exact concentration of antibody is not quantifiable.
Storage	Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.
Clonality	Monoclonal
Clone	2F1
Preservative	0.03% Sodium Azide
Isotype	IgG1
Purity	Ascites
Buffer	Ascites
Target Molecular Weight	22.2 kDa

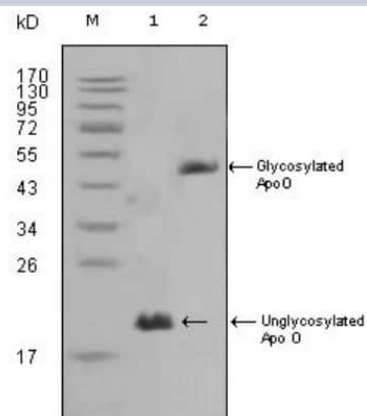
Product Description	
Description	Novus Biologicals Mouse APOO Antibody (2F1) (NBP1-28870) is a monoclonal antibody validated for use in IHC, WB and ELISA. Anti-APOO Antibody: Cited in 3 publications. All Novus Biologicals antibodies are covered by our 100% guarantee.
Host	Mouse
Gene ID	79135
Gene Symbol	APOO
Species	Human, Mouse
Reactivity Notes	Please note that this antibody is reactive to Mouse and derived from the same host, Mouse. Mouse-On-Mouse blocking reagent may be needed for IHC and ICC experiments to reduce high background signal. You can find these reagents under catalog numbers PK-2200-NB and MP-2400-NB. Please contact Technical Support if you have any questions.
Immunogen	Purified recombinant fragment of APOO expressed in E. Coli.

Product Application Details	
Applications	Western Blot, Immunohistochemistry-Paraffin, ELISA, Immunohistochemistry
Recommended Dilutions	Western Blot 1:500-1:2000, ELISA 1:10000, Immunohistochemistry 1:10-1:500, Immunohistochemistry-Paraffin 1:200-1:1000

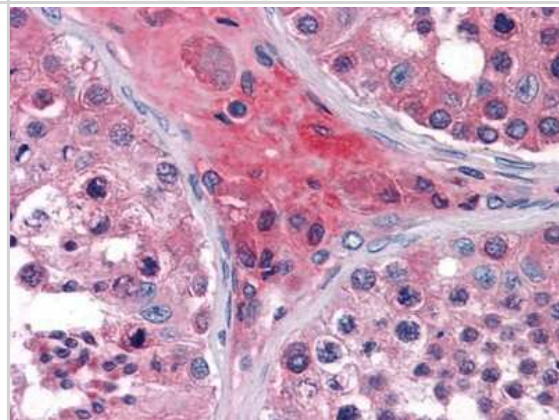


Images

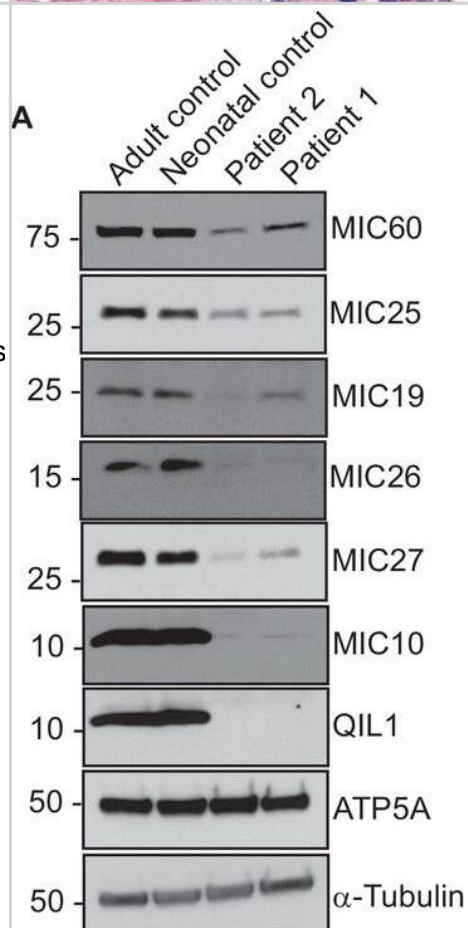
Western Blot: APOO Antibody (2F1) [NBP1-28870] - Analysis using ApoO mouse mAb against HepG2 (1) and 3T3L1(2) cell lysate.



Immunohistochemistry-Paraffin: APOO Antibody (2F1) [NBP1-28870] - Analysis of human Testis tissues using ApoO mouse mAb.



Reduced MICOS subunit abundance and cristae morphology defects in QIL1-deficient patients' fibroblasts. (A) Immunoblot analysis of QIL1 and various MICOS subunits in control adult skin fibroblasts, control neonatal skin fibroblasts and skin fibroblasts obtained from patients 1 and 2. Anti-ATP5A and α -Tubulin were used as loading controls. (B) Densitometry analysis was performed using ImageJ. Values were normalized to ATP5A. (C) qPCR analysis. Expression levels were normalized to Tubulin. (D) Electron microscopy analysis of control adult skin fibroblasts, control neonatal skin fibroblasts and skin fibroblasts from patients 1 and 2 showing enlarged mitochondria with cristae membrane swirls and proliferation of inner membranes in cells from both patients, as compared to normal mitochondria in control cells; some patients' mitochondria contain electron dense inclusions. Morphologically abnormal mitochondria are indicated by the arrowhead. Mitochondria with cristae junctions of normal morphology are indicated with an asterisk. Quantification of abnormal mitochondria based on analysis of the indicated number of mitochondria by electron microscopy is shown. (E) Electron microscopy analysis of skeletal muscle biopsy from patient 1 showing large round mitochondria (arrowhead), which can sometimes reach the size of two sarcomeres. These large mitochondria show an important proliferation of membranes; some mitochondria contain inclusions in the form of electron dense dots. For panels B and C, asterisks represent p values < 0.05 . Error bars (\pm SEM) show the mean of 3 or 4 biological replicates. DOI: <http://dx.doi.org/10.7554/eLife.17163.004> Image collected and cropped by CiteAb from the following open publication (<https://pubmed.ncbi.nlm.nih.gov/27623147>), licensed under a CC-BY license. Not internally tested by Novus Biologicals.



Publications

Liu T, Woo JA, Bukhari MZ et al. CHCHD10-regulated OPA1-mitofilin complex mediates TDP-43-induced mitochondrial phenotypes associated with frontotemporal dementia FASEB J. 2020-05-05 [PMID: 32369233] (Mouse)

Guarani V, Jardel C, Chretien D et al. QIL1 mutation causes MICOS disassembly and early onset fatal mitochondrial encephalopathy with liver disease Elife 2016-09-14 [PMID: 27623147] (WB, Human)

Guarani V, McNeill EM, Paulo JA et al. QIL1 is a novel mitochondrial protein required for MICOS complex stability and cristae morphology. Elife. 2015-05-22 [PMID: 25997101] (Human)





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Products Related to NBP1-28870

NBP2-33376H	Blue Marker Antibody (6F4-F6) [HRP]
HAF007	Goat anti-Mouse IgG Secondary Antibody [HRP]
NB7539	Goat anti-Mouse IgG (H+L) Secondary Antibody [HRP]
NBP1-97005-0.5mg	Mouse IgG1 Isotype Control (MG1)

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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