

Product Datasheet

ALDH18A1 Antibody - BSA Free

NBP1-83324

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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Publications: 4

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Updated 9/9/2025 v.20.1

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NBP1-83324

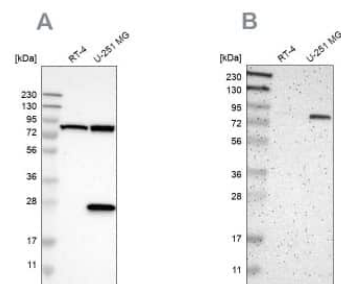
ALDH18A1 Antibody - BSA Free

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	
Description	Novus Biologicals Rabbit ALDH18A1 Antibody - BSA Free (NBP1-83324) is a polyclonal antibody validated for use in IHC, WB and ICC/IF. Anti-ALDH18A1 Antibody: Cited in 4 publications. All Novus Biologicals antibodies are covered by our 100% guarantee.
Host	Rabbit
Gene ID	5832
Gene Symbol	ALDH18A1
Species	Human, Mouse, Rat
Immunogen	This antibody was developed against Recombinant Protein corresponding to amino acids: SVTFGTKSRVGMGGMEAKVKAALWALQGGTSVVIANGTHPKVSGHVITDIVEG KKVGTFSEVKPAGPTVEQQGEMARSGGRMLATLEPEQRAEIIHHLADLLTDQ RD
Product Application Details	
Applications	Western Blot, Immunohistochemistry-Paraffin, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry
Recommended Dilutions	Western Blot 0.04-0.4 ug/ml, Immunohistochemistry 1:50 - 1:200, Immunocytochemistry/ Immunofluorescence 0.25-2 ug/ml, Immunohistochemistry-Paraffin 1:50-1:200
Application Notes	For IHC-Paraffin, HIER pH 6 retrieval is recommended. ICC/IF Fixation Permeabilization: Use PFA/Triton X-100.

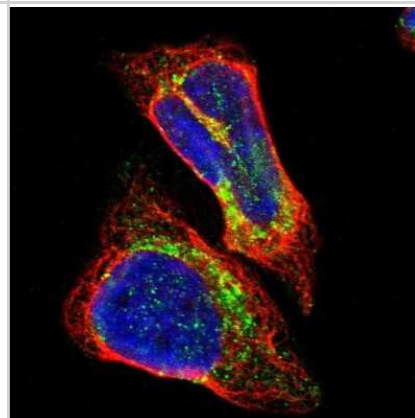


Images

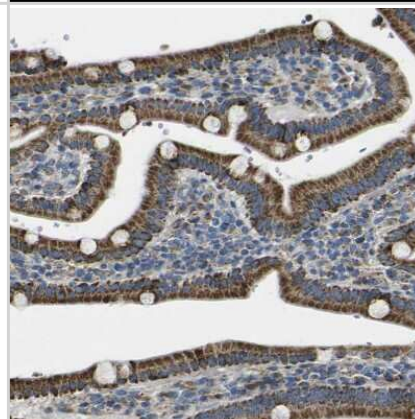
Western Blot: ALDH18A1 Antibody [NBP1-83324] - Analysis using Anti-ALDH18A1 antibody NBP1-83324 (A) shows similar pattern to independent antibody NBP1-83325 (B).



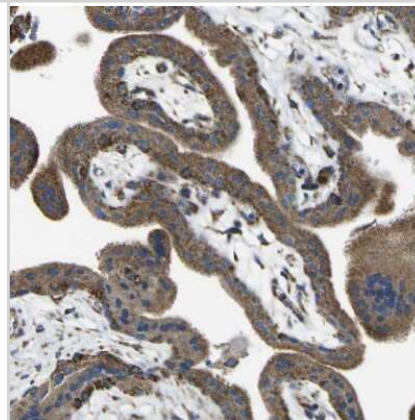
Immunocytochemistry/Immunofluorescence: ALDH18A1 Antibody [NBP1-83324] - Staining of human cell line A-431 shows localization to mitochondria. Antibody staining is shown in green.



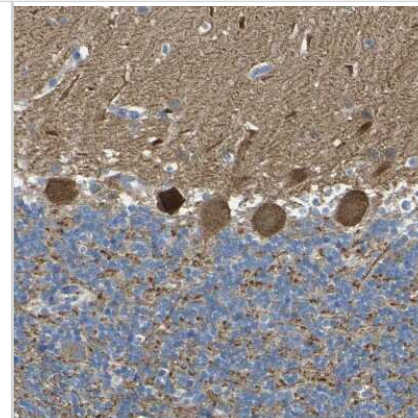
Immunohistochemistry-Paraffin: ALDH18A1 Antibody [NBP1-83324] - Staining of human gastrointestinal shows strong granular cytoplasmic positivity in glandular cells.



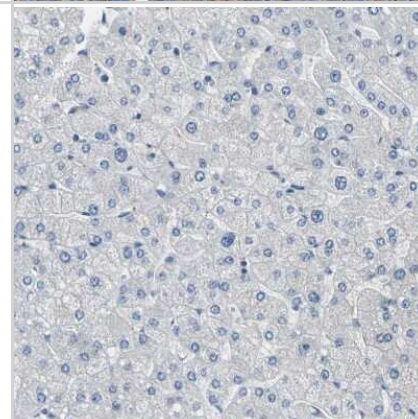
Immunohistochemistry-Paraffin: ALDH18A1 Antibody [NBP1-83324] - Staining of human placenta shows strong granular cytoplasmic positivity in trophoblastic cells.



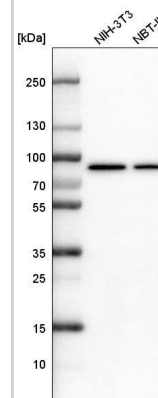
Immunohistochemistry-Paraffin: ALDH18A1 Antibody [NBP1-83324] - Staining of human cerebellum shows strong cytoplasmic positivity in Purkinje cells.



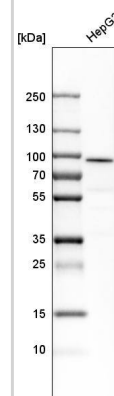
Immunohistochemistry-Paraffin: ALDH18A1 Antibody [NBP1-83324] - Staining of human liver shows no positivity in hepatocytes as expected.



Analysis in mouse cell line NIH-3T3 and rat cell line NBT-II.



Analysis in human cell line HepG2.



Publications

Jones B, Balasubramaniam M, Lebowitz JJ, et al. Activation of proline biosynthesis is critical to maintain glutamate homeostasis during acute methamphetamine exposure Scientific reports 2021-01-14 [PMID: 33446840]

Kardos GR, Wastyk HC, Robertson GP et al. Disruption of Proline Synthesis in Melanoma Inhibits Protein Production Mediated by the GCN2 Pathway Mol Cancer Res. 2015-06-15 [PMID: 26082174] (WB, Human)

Tang L, Zeng J, Geng P et al. Global metabolic profiling identifies a pivotal role of proline and hydroxyproline metabolism in supporting hypoxic response in hepatocellular carcinoma Clin. Cancer Res. 2017-10-30 [PMID: 29084919] (Human)

Fischer Bjorn, Callewaert Bert, Schroter Phillipe et al. Severe congenital cutis laxa with cardiovascular manifestations due to homozygous deletions in ALDH18A1. Mol Genet Metab. 2014-05-21 [PMID: 24913064] (Human)





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Products Related to NBP1-83324

NBP1-83324PEP	ALDH18A1 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

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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