

Product Datasheet

Aldehyde Dehydrogenase 1-A1/ALDH1A1 Antibody - BSA Free NBP1-89152

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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NBP1-89152

Aldehyde Dehydrogenase 1-A1/ALDH1A1 Antibody - BSA Free

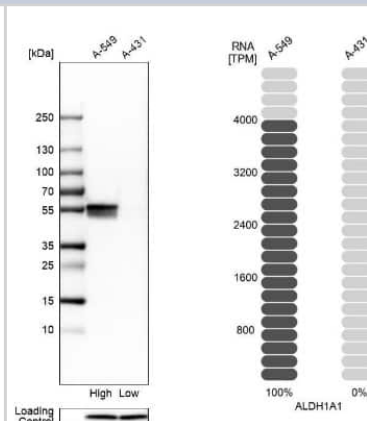
Product Information	
Unit Size	0.1 ml
Concentration	Concentrations vary lot to lot. See vial label for concentration. If unlisted please contact technical services.
Storage	Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.
Clonality	Polyclonal
Preservative	0.02% Sodium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

Product Description	
Host	Rabbit
Gene ID	216
Gene Symbol	ALDH1A1
Species	Human
Reactivity Notes	Reactivity reported in scientific literature (PMID: 23335266)
Marker	Astrocyte Marker
Immunogen	This antibody was developed against Recombinant Protein corresponding to amino acids: IYDEFVRRSVERAKKYILGNPLTPGVTQGPQIDKEQYDKILDIESGKKEGAKLE CGGGPWGNKGYFVQPTVFSNVTDEMRIAKEEIFGPVQQIMKFKSLDDVIKRN NTFYGL

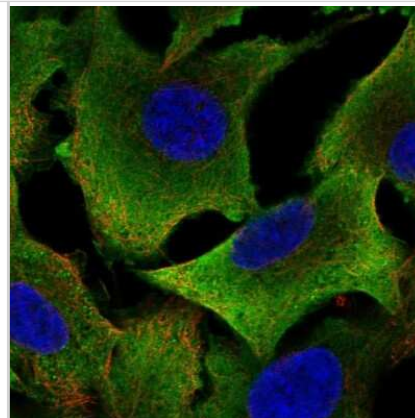
Product Application Details	
Applications	Western Blot, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry, Immunohistochemistry-Paraffin
Recommended Dilutions	Western Blot 0.04-0.4 ug/ml, Immunohistochemistry 1:2500 - 1:5000, Immunocytochemistry/ Immunofluorescence 0.25-2 ug/ml, Immunohistochemistry-Paraffin 1:2500 - 1:5000
Application Notes	For IHC-Paraffin, HIER pH 6 retrieval is recommended. ICC/IF Fixation Permeabilization: Use PFA/Triton X-100.

Images

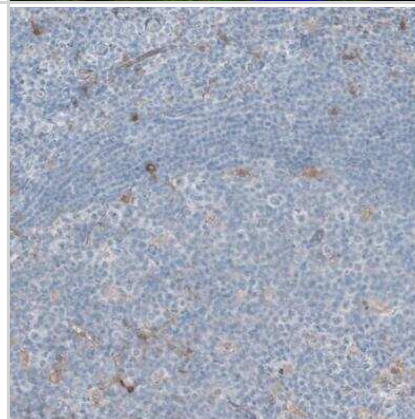
Western Blot: Aldehyde Dehydrogenase 1-A1/ALDH1A1 Antibody [NBP1-89152] - Analysis in human cell lines A-549 and A-431 using anti-ALDH1A1 antibody. Corresponding ALDH1A1 RNA-seq data are presented for the same cell lines. Loading control: anti-PPIB.



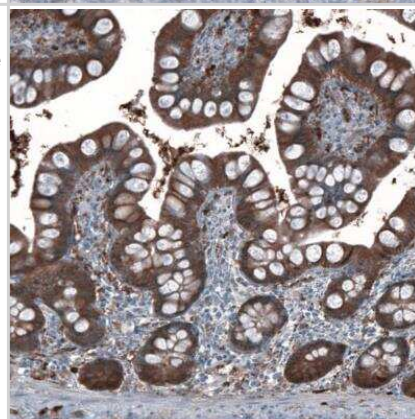
Immunocytochemistry/Immunofluorescence: Aldehyde Dehydrogenase 1-A1/ALDH1A1 Antibody [NBP1-89152] - Staining of human cell line A549 shows localization to cytosol. Antibody staining is shown in green.



Immunohistochemistry-Paraffin: Aldehyde Dehydrogenase 1-A1/ALDH1A1 Antibody [NBP1-89152] - Staining of human tonsil shows very weak positivity in non-germinal center cells.



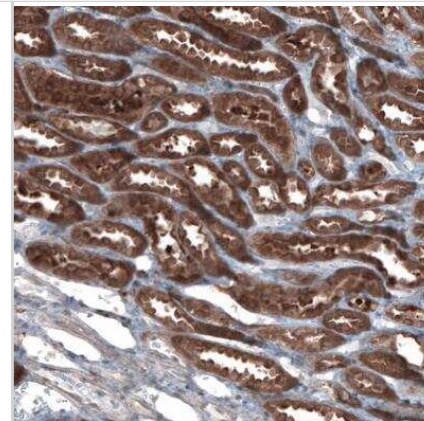
Immunohistochemistry-Paraffin: Aldehyde Dehydrogenase 1-A1/ALDH1A1 Antibody [NBP1-89152] - Staining of human small intestine shows moderate cytoplasmic positivity in glandular cells.



Immunohistochemistry-Paraffin: Aldehyde Dehydrogenase 1-A1/ALDH1A1 Antibody [NBP1-89152] - Staining of human liver shows strong cytoplasmic positivity in hepatocytes.



Immunohistochemistry-Paraffin: Aldehyde Dehydrogenase 1-A1/ALDH1A1 Antibody [NBP1-89152] - Staining of human kidney shows strong cytoplasmic positivity in cells in tubules.



Publications

Huang R, Yamamoto T, Nakata E et al. CDKAL1 Drives the Maintenance of Cancer Stem-Like Cells by Assembling the eIF4F Translation Initiation Complex Advanced science (Weinheim, Baden-Wurttemberg, Germany) 2023-02-14 [PMID: 36786012] (WB)

Chefetz I, Grimley E, Yang K et al. A Pan-ALDH1A Inhibitor Induces Necroptosis in Ovarian Cancer Stem-like Cells Cell Rep 2019-03-12 [PMID: 30865894] (WB, Human)

Harper AR, Wiechmann AF, Moiseyev G et al. Identification of Active Retinaldehyde Dehydrogenase Isoforms in the Postnatal Human Eye. PLoS One 2015-01-01 [PMID: 25793304] (IF/IHC, Human)

Szabo AZ, Fong S, Yue L et al. The CD44+ALDH+ Population of Human Keratinocytes Is Enriched for Epidermal Stem Cells with Long-Term Repopulating Ability. Stem Cells 2013-04-01 [PMID: 23335266]



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Products Related to NBP1-89152

NBP1-89152PEP	Aldehyde Dehydrogenase 1-A1/ALDH1A1 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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