

# 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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Updated 12/2/2025 v.20.1

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

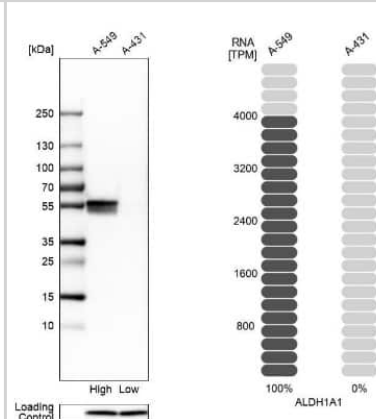
<b>Product Information</b>	
<b>Unit Size</b>	0.1 ml
<b>Concentration</b>	Concentrations vary lot to lot. See vial label for concentration. If unlisted please contact technical services.
<b>Storage</b>	Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.
<b>Clonality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

<b>Product Description</b>	
<b>Description</b>	Novus Biologicals Rabbit Aldehyde Dehydrogenase 1-A1/ALDH1A1 Antibody - BSA Free (NBP1-89152) is a polyclonal antibody validated for use in IHC, WB and ICC/IF. Anti-Aldehyde Dehydrogenase 1-A1/ALDH1A1 Antibody: Cited in 4 publications. All Novus Biologicals antibodies are covered by our 100% guarantee.
<b>Host</b>	Rabbit
<b>Gene ID</b>	216
<b>Gene Symbol</b>	ALDH1A1
<b>Species</b>	Human
<b>Reactivity Notes</b>	Reactivity reported in scientific literature (PMID: 23335266)
<b>Marker</b>	Astrocyte Marker
<b>Immunogen</b>	This antibody was developed against Recombinant Protein corresponding to amino acids: IYDEFVRRSVERAKKYILGNPLTPGVTTQGPQIDKEQYDKILDIESGKKEGAKLE CGGGPWGNKGYFVQPTVFSNVTDEMRIAKEEIFGPVQQIMKFKSLDDVIKRN NTFYGL

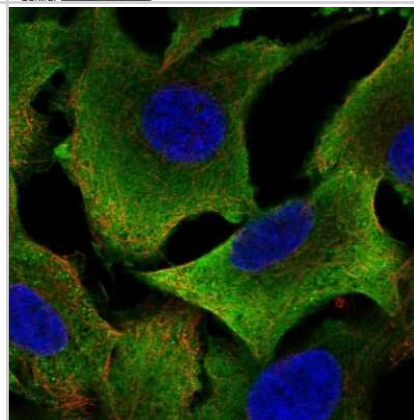
<b>Product Application Details</b>	
<b>Applications</b>	Western Blot, Immunohistochemistry-Paraffin, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry
<b>Recommended Dilutions</b>	Western Blot 0.04-0.4 ug/ml, Immunohistochemistry 1:2500 - 1:5000, Immunocytochemistry/ Immunofluorescence 0.25-2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

## Images

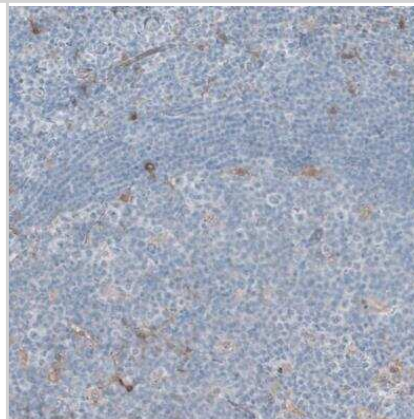
Western Blot: Aldehyde Dehydrogenase 1-A1/ALDH1A1 Antibody [NBP1-89152] - Analysis in human cell lines A-549 and A-431 using anti-ALDH1A1 antibody. Corresponding ALDH1A1 RNA-seq data are presented for the same cell lines. Loading control: anti-PPIB.



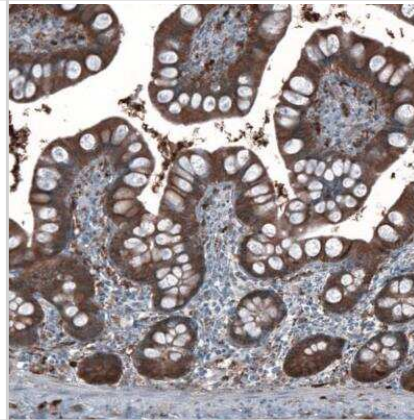
Immunocytochemistry/Immunofluorescence: Aldehyde Dehydrogenase 1-A1/ALDH1A1 Antibody [NBP1-89152] - Staining of human cell line A549 shows localization to cytosol. Antibody staining is shown in green.



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



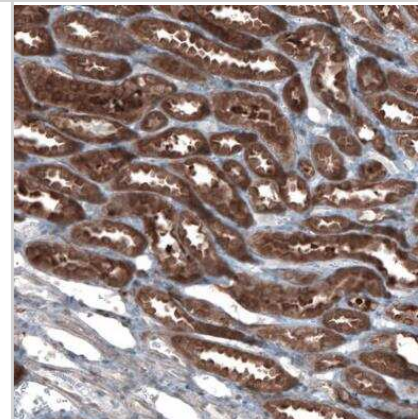
Immunohistochemistry-Paraffin: Aldehyde Dehydrogenase 1-A1/ALDH1A1 Antibody [NBP1-89152] - Staining of human small intestine shows moderate cytoplasmic positivity in glandular cells.



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-Wuerttemberg, 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**

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NBP1-89152PEP	Aldehyde Dehydrogenase 1-A1/ALDH1A1 Recombinant Protein Antigen
NBP2-33376H	Blue Marker Antibody (6F4-F6) [HRP]
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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