

# Product Datasheet

## ALDH1L1 Antibody (4A12) - BSA Free NBP2-50045

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 9/9/2025 v.20.1

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**NBP2-50045**

ALDH1L1 Antibody (4A12) - BSA Free

Product Information	
<b>Unit Size</b>	0.1 ml
<b>Concentration</b>	1 mg/ml
<b>Storage</b>	Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.
<b>Clonality</b>	Monoclonal
<b>Clone</b>	4A12
<b>Preservative</b>	5mM Sodium Azide
<b>Isotype</b>	IgG2b
<b>Purity</b>	Immunogen affinity purified
<b>Buffer</b>	50% PBS, 50% glycerol
<b>Target Molecular Weight</b>	100 kDa

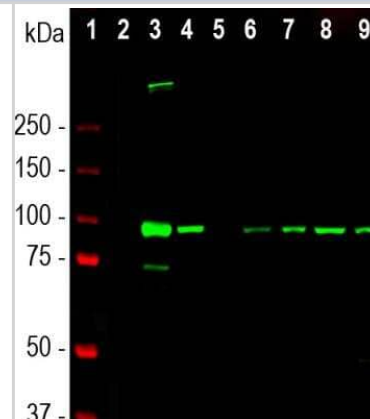
Product Description	
<b>Description</b>	Novus Biologicals Mouse ALDH1L1 Antibody (4A12) - BSA Free (NBP2-50045) is a monoclonal antibody validated for use in IHC, WB and ICC/IF. Anti-ALDH1L1 Antibody: Cited in 3 publications. All Novus Biologicals antibodies are covered by our 100% guarantee.
<b>Host</b>	Mouse
<b>Gene ID</b>	10840
<b>Gene Symbol</b>	ALDH1L1
<b>Species</b>	Human, Mouse, Rat
<b>Immunogen</b>	Amino acids 1- 401 of human ALDH1L1. [UniProt# O75891]

Product Application Details	
<b>Applications</b>	Western Blot, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry
<b>Recommended Dilutions</b>	Western Blot 1:5000-1:10000, Immunohistochemistry 1:1000-1:2000, Immunocytochemistry/ Immunofluorescence 1:1000-1:2000

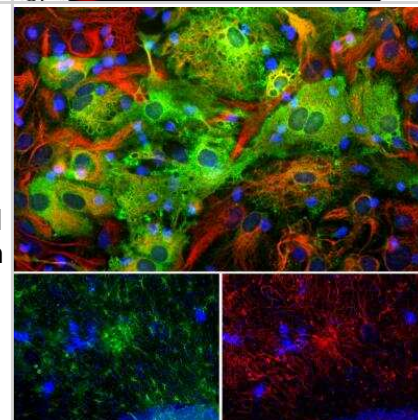


## Images

Western Blot: ALDH1L1 Antibody (4A12) [NBP2-50045] - Analysis of rat and mouse tissue lysates using mouse ALDH1L1 mAb, dilution 1:5000 (Green): [1] protein standard (Red), rat tissue lysates: [2] heart, [3] liver, [4] kidney, [5] lung, [6] brain, and [7] spinal cord; Also mouse tissue lysates: [8] brain, and [9] spinal cord. The band at 100kDa corresponds to ALDH1L1 protein. In line with published work, ALDH1L1 is a major protein of liver and CNS tissue.



Immunocytochemistry/Immunofluorescence: ALDH1L1 Antibody (4A12) [NBP2-50045] - Analysis of mixed cortical neuron-glia cell culture from an E20 rat stained with mouse ALDH1L1 mAb, dilution 1:1,000 (Green), and costained with chicken Vimentin pAb, dilution 1:5000 (Red). DAPI staining of nuclear DNA (Blue). The ALDH1L1 antibody produces strong cytoplasmic staining of astrocytic glial cells, while the Vimentin antibody labels the intermediate filament cytoskeleton in fibroblasts and other glial cells. Some cells, presumably developing astrocytes, are stained by both ALDH1L1 and vimentin and so appear yellow.



## Publications

Marc Oria, Bedika Pathak, Zhen Li, Kenan Bakri, Kara Gouwens, Maria Florencia Varela, Kristin Lampe, Kendall P. Murphy, Chia-Ying Lin, Jose L. Peiro Premature Neural Progenitor Cell Differentiation Into Astrocytes in Retinoic Acid-Induced Spina Bifida Rat Model *Frontiers in Molecular Neuroscience* 2022-06-17 [PMID: 35782393] (Western Blot, Immunocytochemistry/ Immunofluorescence)

Hamilton HL, Kinscherf NA, Balmer G et al. FABP7 drives an inflammatory response in human astrocytes and is upregulated in Alzheimer's disease *GeroScience* 2023-09-09 [PMID: 37688656] (IHC-P, Mouse)

Yoon S, Hong N, Lee M, Ahn J Photobiomodulation with a 660-Nanometer Light-Emitting Diode Promotes Cell Proliferation in Astrocyte Culture Cells 2021-07-02 [PMID: 34359834] (ICC/IF, WB)



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### **Products Related to NBP2-50045**

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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]
NBP2-27231	Mouse IgG2b Isotype Control (MPC-11)

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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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