

# Product Datasheet

## Aldehyde Dehydrogenase 1-A1/ALDH1A1 Antibody NB100-787

Unit Size: 0.1 mg

Store at -20C. Avoid freeze-thaw cycles.

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**NB100-787****Aldehyde Dehydrogenase 1-A1/ALDH1A1 Antibody**

<b>Product Information</b>	
<b>Unit Size</b>	0.1 mg
<b>Concentration</b>	0.5 mg/ml
<b>Storage</b>	Store at -20C. Avoid freeze-thaw cycles.
<b>Clonality</b>	Polyclonal
<b>Preservative</b>	0.02% Sodium Azide
<b>Isotype</b>	IgG
<b>Purity</b>	Immunogen affinity purified
<b>Buffer</b>	Tris saline (20 mM Tris pH 7.3, 150 mM NaCl), 0.5% BSA

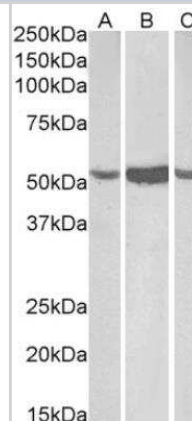
<b>Product Description</b>	
<b>Host</b>	Goat
<b>Gene ID</b>	216
<b>Gene Symbol</b>	ALDH1A1
<b>Species</b>	Human, Mouse, Rat
<b>Marker</b>	Astrocyte Marker
<b>Specificity/Sensitivity</b>	This antibody may cross-react with ALDH1A2 (GeneID 8854) with one residue difference from this design, and with ALDH2 (GeneID 217) with two residues difference from this design.
<b>Immunogen</b>	Peptide with sequence C-EVKTVTVKISQKNS corresponding to C-Terminus according to NP_000680.2.

<b>Product Application Details</b>	
<b>Applications</b>	Western Blot, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry, Peptide ELISA
<b>Recommended Dilutions</b>	Western Blot 0.1-0.3 ug/ml, Immunohistochemistry, Immunocytochemistry/ Immunofluorescence 10 ug/ml, Peptide ELISA detection limit 1:1000
<b>Application Notes</b>	WB: Approx 55 kDa band observed in human, mouse and rat liver lysates (calculated MW of 54.9 kDa according to NP_000680.2). IHC: successful usage on mouse Peyer's patches is reported in scientific literature (PMID: 15485630).

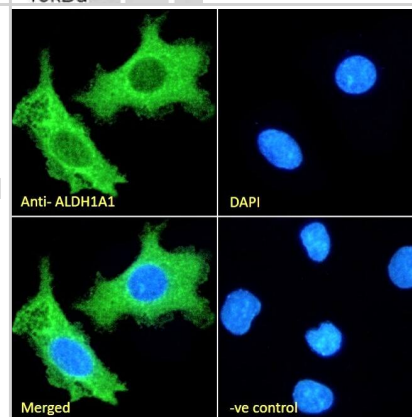


## Images

**Western Blot: Aldehyde Dehydrogenase 1-A1/ALDH1A1 Antibody [NB100-787]** - Staining of human (A), mouse (B) and rat (C) liver lysate (35 ug protein in RIPA buffer). Primary incubation was 1 hour. Detected by chemiluminescence.



**Immunocytochemistry/Immunofluorescence: Aldehyde Dehydrogenase 1 -A1/ALDH1A1 Antibody [NB100-787]** - Immunofluorescence analysis of paraformaldehyde fixed HepG2 cells, permeabilized with 0.15% Triton. Primary incubation 1hr (10ug/ml) followed by Alexa Fluor 488 secondary antibody (2ug/ml), showing cytoplasmic staining. The nuclear stain is DAPI (blue). Negative control: Unimmunized goat IgG (10ug/ml) followed by Alexa Fluor 488 secondary antibody (2ug/ml).



## Publications

Kim D, Ahn J, Suh Y et al. Retinol Binding Protein 7 Promotes Adipogenesis in vitro and Regulates Expression of Genes Involved in Retinol Metabolism *Frontiers in Cell and Developmental Biology* [PMID: 35493071] (WB, Mouse)

Eminel S, Jin N, Rostami M et al. Dimethyl- and monomethylfumarate regulate indolamine 2,3-dioxygenase (IDO) activity in human immune cells *Exp. Dermatol.* 2016-07-04 [PMID: 27376248] (WB, Mouse)

Zheng CF, Wang TT, Weiner H. Cloning and expression of the full-length cDNAs encoding human liver class 1 and class 2 aldehyde dehydrogenase. *Alcohol Clin Exp Res* 1993-08-01 [PMID: 8214422]

Iwata M, Hirakiyama A, Eshima Y et al. Retinoic acid imprints gut-homing specificity on T cells. *Immunity* 2004-10-01 [PMID: 15485630]

Fishman-Jacob T, Reznichenko L, Youdim MB, et al. A sporadic Parkinson disease model via silencing of the ubiquitin-proteasome/E3 ligase component SKP1A *J Biol Chem* 2009-11-01 [PMID: 19748892]



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### **Products Related to NB100-787**

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NB800-PC6	293 Whole Cell Lysate
HAF017	Rabbit anti-Goat IgG Secondary Antibody [HRP (Horseradish Peroxidase)]
HAF109	Donkey anti-Goat IgG Secondary Antibody [HRP (Horseradish Peroxidase)]
NB410-28088-1mg	Goat 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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