

Product Datasheet

ALDH4A1 Antibody (7E2-R)

NBP3-32024

Unit Size: 100 ul

Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.

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NBP3-32024**ALDH4A1 Antibody (7E2-R)**

Product Information	
Unit Size	100 ul
Concentration	1 mg/ml
Storage	Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.
Clonality	Monoclonal
Clone	7E2-R
Preservative	0.05% Sodium Azide
Isotype	IgG1
Purity	Protein A purified
Buffer	PBS (pH7.4), 0.1% BSA and 40% Glycerol
Target Molecular Weight	62 kDa
Product Description	
Description	Novus Biologicals Mouse ALDH4A1 Antibody (7E2-R) (NBP3-32024) is a recombinant monoclonal antibody validated for use in IHC, WB and ICC/IF. All Novus Biologicals antibodies are covered by our 100% guarantee.
Host	Mouse
Gene ID	8659
Gene Symbol	ALDH4A1
Species	Human, Mouse, Rat
Immunogen	Synthetic peptide within Human ALDH4A1 aa 514-563 / 563. (Uniprot: P30038)
Product Application Details	
Applications	Western Blot, Immunohistochemistry-Paraffin, Immunocytochemistry/Immunofluorescence, Immunohistochemistry
Recommended Dilutions	Western Blot 1:5000, Immunohistochemistry, Immunocytochemistry/Immunofluorescence 1:100, Immunohistochemistry-Paraffin 1:1000

Images

Western Blot: ALDH4A1 Antibody (7E2-R) [NBP3-32024] - Western blot analysis of ALDH4A1 on different lysates with Mouse anti-ALDH4A1 antibody (NBP3-32024) at 1/5,000 dilution.

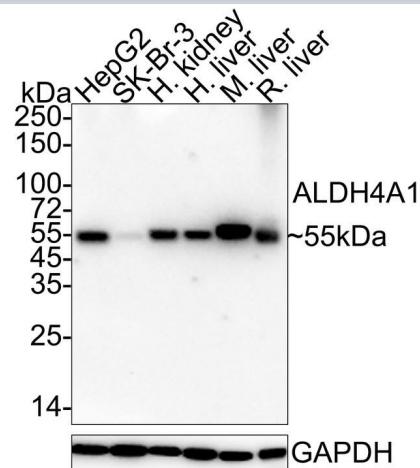
Lane 1: HepG2 cell lysate (20 ug/Lane)
 Lane 2: SK-Br-3 cell lysate (20 ug/Lane)
 Lane 3: Human kidney tissue lysate (40 ug/Lane)
 Lane 4: Human liver tissue lysate (40 ug/Lane)
 Lane 5: Mouse liver tissue lysate (40 ug/Lane)
 Lane 6: Rat liver tissue lysate (40 ug/Lane)

Predicted band size: 62 kDa
 Observed band size: 55 kDa

Exposure time: 1 minute 13 seconds;

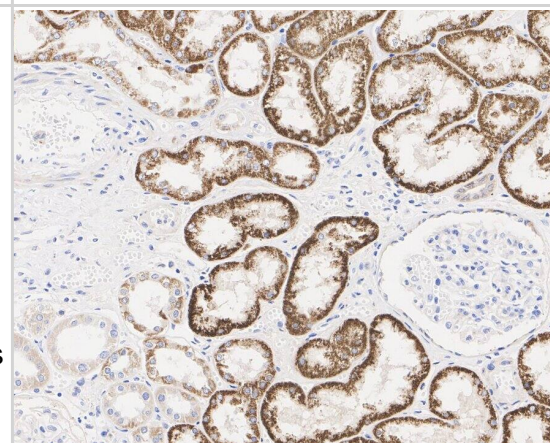
4-20% SDS-PAGE gel.

Proteins were transferred to a PVDF membrane and blocked with 5% NFDm/TBST for 1 hour at room temperature. The primary antibody (NBP3-32024) at 1/5,000 dilution was used in 5% NFDm/TBST at 4°C overnight. Goat Anti-Mouse IgG - HRP Secondary Antibody at 1/50,000 dilution was used for 1 hour at room temperature.



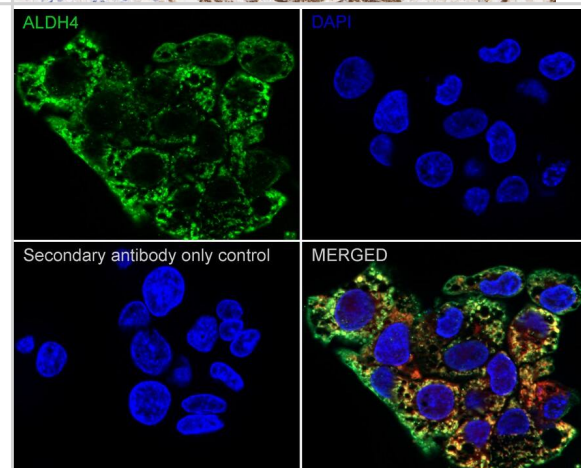
Immunohistochemistry: ALDH4A1 Antibody (7E2-R) [NBP3-32024] - Immunohistochemical analysis of paraffin-embedded human kidney tissue with Mouse anti-ALDH4A1 antibody (NBP3-32024) at 1/1,000 dilution.

The section was pre-treated using heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0) for 20 minutes. The tissues were blocked in 1% BSA for 20 minutes at room temperature, washed with ddH₂O and PBS, and then probed with the primary antibody (NBP3-32024) at 1/1,000 dilution for 1 hour at room temperature. The detection was performed using an HRP conjugated compact polymer system. DAB was used as the chromogen. Tissues were counterstained with hematoxylin and mounted with DPX.



Immunocytochemistry/ Immunofluorescence: ALDH4A1 Antibody (7E2-R) [NBP3-32024] - Immunocytochemistry analysis of HepG2 cells labeling ALDH4A1 with Rabbit anti-ALDH4A1 antibody (NBP3-32024) at 1/100 dilution.

Cells were fixed in 4% paraformaldehyde for 20 minutes at room temperature, permeabilized with 0.1% Triton X-100 in PBS for 5 minutes at room temperature, then blocked with 1% BSA in 10% negative goat serum for 1 hour at room temperature. Cells were then incubated with Rabbit anti-ALDH4A1 antibody (NBP3-32024) at 1/100 dilution in 1% BSA in PBST overnight at 4°C. Goat Anti-Rabbit IgG H&L (iFluor™ 488) was used as the secondary antibody at 1/1,000 dilution. PBS instead of the primary antibody was used as the secondary antibody only control. Counterstained with Mitotracker. Nuclear DNA was labelled in blue with DAPI.





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Products Related to NBP3-32024

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]
NBP1-97005-0.5mg	Mouse IgG1 Isotype Control (MG1)

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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