

Rabbit ALDH6A1 Polyclonal Antibody | anti-ALDH6A1 antibody

ALDH6A1 antibody - middle region

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA199723	Rabbit	Cow, Dog, Guinea Pig, Horse, Human, Mouse, Pig, Rabbit, Rat, Zebrafish	Immunohistochemistry, Western Blot

PRODUCT SYNONYMS

ALDH6A1; Polyclonal Antibody; ALDH6A1 antibody - middle region; anti-ALDH6A1 antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Cow, Dog, Guinea Pig, Horse, Human, Mouse, Pig, Rabbit, Rat, Zebrafish
Clonality	Polyclonal
Purity/Purification	Affinity Purified
Form/Format	Liquid. Purified antibody supplied in 1x PBS buffer with 0.09% (w/v) sodium azide and 2% sucrose.
Sequence	Synthetic peptide located within the following region: GQ VGVNVPVP LPMFSFTGSR SSFRGDTN FY GKQGIQFYTQ LKTITSQW
Sequence Length	535
Applicable Applications for anti-ALDH6A1 antibody	IHC (Immunohistochemistry), WB (Western Blot)
Homology	Cow: 93%; Dog: 100%; Guinea Pig: 93%; Horse: 100%; Human: 100%; Mouse: 100%; Pig: 100%; Rabbit: 100%; Rat: 100%; Zebrafish: 93%
Immunogen	The immunogen is a synthetic peptide directed towards the middle region of human ALDH6A1
Preparation and Storage	For short term use, store at 2-8 degree C up to 1 week. For long term storage, store at -20 degree C in small aliquots to prevent freeze-thaw cycles.

IMAGES



WB (Western Blot)

WB Suggested Anti-ALDH6A1 Antibody Titration: 0.2-1 ug/ml
ELISA Titer: 1:31250
Positive Control: THP-1 cell lysate



IHC (Immunohistochemistry)

Rabbit Anti-ALDH6A1 Antibody
Formalin Fixed Paraffin Embedded Tissue: Human Liver Tissue
Observed Staining: Cytoplasm in hepatocytes
Primary Antibody Concentration: N/A
Other Working Concentrations: 1:600
Secondary Antibody: Donkey anti-Rabbit-Cy3
Secondary Antibody Concentration: 1:200
Magnification: 20X
Exposure Time: 0.5 - 2.0 sec

ADDITIONAL INFORMATION

Related Product Information for anti-ALDH6A1 antibody	This is a rabbit polyclonal antibody against ALDH6A1. It was validated on Western Blot using a cell lysate as a positive control. Target Description: ALDH6A1 plays a role in valine and pyrimidine metabolism. ALDH6A1 binds fatty acyl-CoA. This protein belongs to the aldehyde dehydrogenases family of proteins. This enzyme plays a role in the valine and pyrimidine catabolic pathways. The product of this gene, a mitochondrial methylmalonate semialdehyde dehydrogenase, catalyzes the irreversible oxidative decarboxylation of malonate and methylmalonate semialdehydes to acetyl- and propionyl-CoA. Methylmalonate semialdehyde dehydrogenase deficiency is characterized by elevated beta-alanine, 3-hydroxypropionic acid, and both isomers of 3-amino and 3-hydroxyisobutyric acids in urine organic acids.
Product Categories/Family for anti-ALDH6A1 antibody	Polyclonal; Membrane Protein; Drugs and Drug Metabolism

NCBI AND UNIPROT INFORMATION

NCBI GI #	11095441
NCBI GeneID	4329
NCBI Accession #	NP_005580
NCBI GenBank Nucleotide #	NM_005589
UniProt Accession #	Q02252
Molecular Weight	58kDa
NCBI Official Full Name	methylmalonate-semialdehyde dehydrogenase
NCBI Official Synonym Full Names	aldehyde dehydrogenase 6 family member A1
NCBI Official Symbol	ALDH6A1
NCBI Official Synonym Symbols	MMSDH; MMSADHA
NCBI Protein Information	methylmalonate-semialdehyde dehydrogenase [acylating], mitochondrial
UniProt Protein Name	Methylmalonate-semialdehyde dehydrogenase [acylating], mitochondrial
UniProt Gene Name	ALDH6A1
UniProt Synonym Gene Names	MMSDH; MMSDH; Malonate-semialdehyde dehydrogenase [acylating]
UniProt Entry Name	MMSA_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/polyclonal/aldh6a1-antibody-immunohistochemistry-western-blot-elisa/199723>