Rabbit anti-Human ALDH6A1 Polyclonal Antibody | anti-ALDH6A1 antibody

ALDH6A1 Antibody (N-term)

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA287182	**Rabbit**	**Human**	**Immunohistochemistry, Western Blot, ELISA, Flow Cytometry, Functional Assay**

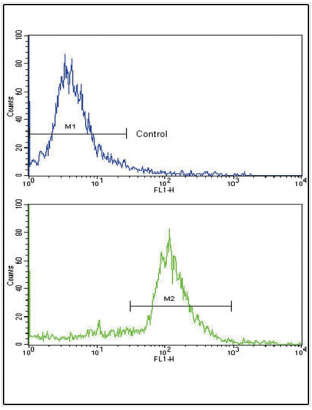
PRODUCT SYNONYMS

ALDH6A1; Polyclonal Antibody; ALDH6A1 Antibody (N-term); Methylmalonate-semialdehyde dehydrogenase [acylating]; mitochondrial; MMSDH; Malonate-semialdehyde dehydrogenase [acylating]; Aldehyde dehydrogenase family 6 member A1; anti-ALDH6A1 antibody

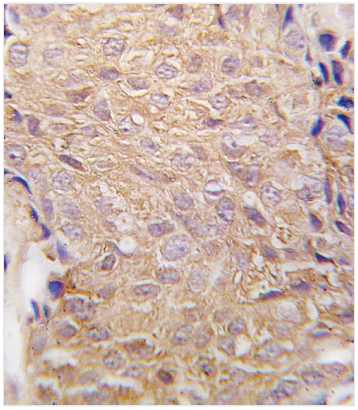
PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human
Clonality	Polyclonal
Isotype	Rabbit Ig
Specificity	This ALDH6A1 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 30-59 amino acids from the N-terminal region of human ALDH6A1.
Purity/Purification	Peptide Affinity Purified Rabbit Polyclonal Antibody (Pab)
Form/Format	Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.
Concentration	Vial Concentration: 0.47 (varies by lot)
Sequence Positions	30-59
Sequence Length	522
Applicable Applications for anti-ALDH6A1 antibody	IHC (Immunohistochemistry), WB (Western Blot), ELISA, FCM/FACS (Flow Cytometry)
Antigen Type	Synthetic Peptide
Antigen Source	HUMAN
Preparation and Storage	Maintain refrigerated at 2-8 degree C for up to 6 months. For long term storage store at -20 degree C in small aliquots to prevent freeze-thaw cycles.

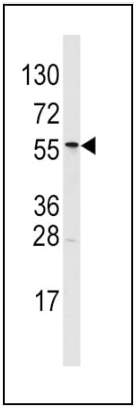
IMAGES



FCM/FACS (Flow Cytometry)
Flow cytometric analysis of ATDC5 cells using ALDH6A1 Antibody (N-term)(bottom histogram) compared to a negative control cell (top histogram). FITC-conjugated goat-anti-rabbit secondary antibodies were used for the analysis.



IHC (Immunohiostchemistry)
Formalin-fixed and paraffin-embedded human breast carcinoma tissue reacted with *ALDH6A1 antibody (N-term) , which was peroxidase-conjugated to the secondary antibody, followed by DAB staining. This data demonstrates the use of this antibody for immunohistochemistry; clinical relevance has not been evaluated.



WB (Western Blot)
Western blot analysis of ALDH6A1 Antibody (N-term) in T47D cell line lysates (35ug/lane). ALDH6A1 (arrow) was detected using the purified Pab.

ADDITIONAL INFORMATION

Related Product Information for anti-ALDH6A1 antibody	ALDH6A1 belongs to the aldehyde dehydrogenases family of proteins. This enzyme plays a role in the valine and pyrimidine catabolic pathways. This protein is a mitochondrial methylmalonate semialdehyde dehydrogenase, and 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	Metabolism; Signal Transduction
References	Kuiper,H., Cytogenet. Genome Res. 109 (4), 533 (2005) Anderson,N.L., Mol. Cell Proteomics 3 (4), 311-326 (2004) Chambliss,K.L., J. Inherit. Metab. Dis. 23 (5), 497-504 (2000) Kedishvili,N.Y., J. Biol. Chem. 267 (27), 19724-19729 (1992)

NCBI AND UNIPROT INFORMATION

NCBI GI #	11095441
NCBI GeneID	4329
NCBI Accession #	NP_005580.1

NCBI GenBank Nucleotide #	NM_005589.3
UniProt Accession #	Q02252; Q9UKM8; B2R609; B4DFS8; J3KNU8
Molecular Weight	57840
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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