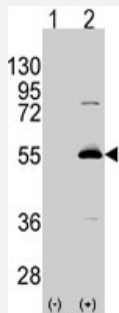


ALDH6A1 polyclonal antibody

Catalog # PAB3128

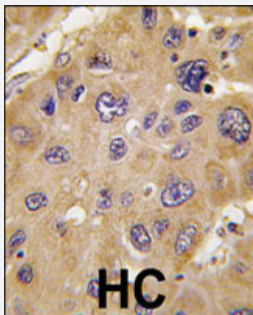
Size 400 uL

Applications



Western Blot (Transfected lysate)

Western blot analysis of ALDH6A1 (arrow) using rabbit ALDH6A1 polyclonal antibody (Cat # PAB3128). 293 cell lysates (2 ug/lane) either nontransfected (Lane 1) or transiently transfected with the ALDH6A1 gene (Lane 2) (Origene Technologies).



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)

Formalin-fixed and paraffin-embedded human hepatocellular carcinoma reacted with ALDH6A1 polyclonal antibody (Cat # PAB3128), 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.

Specification

Product Description	Rabbit polyclonal antibody raised against synthetic peptide of ALDH6A1.
Immunogen	A synthetic peptide (conjugated with KLH) corresponding to C-terminus of human ALDH6A1.
Host	Rabbit
Reactivity	Human
Form	Liquid
Purification	Protein A purification

Recommend Usage	Western Blot (1:1000) Immunohistochemistry (1:10-50) The optimal working dilution should be determined by the end user.
Storage Buffer	In PBS (0.09% sodium azide)
Storage Instruction	Store at 4°C. For long term storage store at -20°C. Aliquot to avoid repeated freezing and thawing.
Note	This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

Applications

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Gene Info — ALDH6A1

Entrez GeneID	4329
Protein Accession#	NP_005580;Q02252
Gene Name	ALDH6A1
Gene Alias	MGC40271, MMSADHA, MMSDH
Gene Description	aldehyde dehydrogenase 6 family, member A1
Omim ID	603178
Gene Ontology	Hyperlink
Gene Summary	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 methyl malonate 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. [provided by RefSeq]

Other Designations

aldehyde dehydrogenase 6A1|mitochondrial acylating methylmalonate-semialdehyde dehydrogenase

Publication Reference

- [Assignment of the PAX6 gene to bovine chromosome 15q25-->q27 by fluorescence in situ hybridization and confirmation by radiation hybrid mapping.](#)

Kuiper H, Williams JL, Distl O, Drogemuller C.

Cytogenetic and Genome Research 2005 Sep; 109(4):533.

- [The human plasma proteome: a nonredundant list developed by combination of four separate sources.](#)

Anderson NL, Polanski M, Pieper R, Gatlin T, Tirumalai RS, Conrads TP, Veenstra TD, Adkins JN, Pounds JG, Fagan R, Loble A.

Molecular & Cellular Proteomics 2004 Apr; 3(4):311.

- [Molecular characterization of methylmalonate semialdehyde dehydrogenase deficiency.](#)

Chambliss KL, Gray RG, Rylance G, Pollitt RJ, Gibson KM.

Journal of Inherited Metabolic Disease 2000 Jul; 23(5):497.

Pathway

- [Inositol phosphate metabolism](#)
- [Metabolic pathways](#)
- [Propanoate metabolism](#)
- [Valine](#)

Disease

- [Tobacco Use Disorder](#)