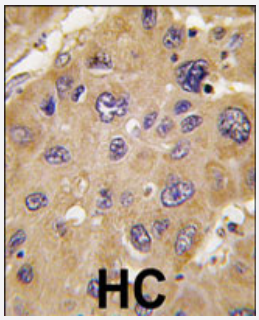
ALDH6A1 polyclonal antibody

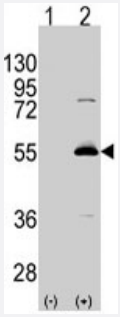
Catalog # PAB3128 Size 400 uL

Applications



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.



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).

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

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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 shoul d be handled by trained staff only.

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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 m alonate and methylmalonate semialdehydes to acetyl- and propionyl-CoA. Methylmalonate semial dehyde 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

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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, Lobley 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

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