

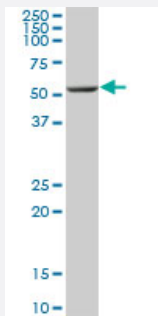
MaxPab®

ALDH6A1 MaxPab mouse polyclonal antibody (B01)

Catalog # H00004329-B01

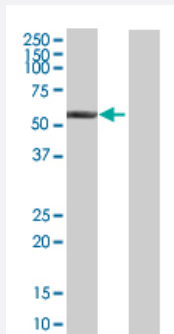
Size 50 uL

Applications



Western Blot (Tissue lysate)

ALDH6A1 MaxPab polyclonal antibody. Western Blot analysis of ALDH6A1 expression in human liver.



Western Blot (Transfected lysate)

Western Blot analysis of ALDH6A1 expression in transfected 293T cell line ([H00004329-T01](#)) by ALDH6A1 MaxPab polyclonal antibody.

Lane 1: ALDH6A1 transfected lysate(58.85 KDa).

Lane 2: Non-transfected lysate.

Specification

Product Description

Mouse polyclonal antibody raised against a full-length human ALDH6A1 protein.

Immunogen

ALDH6A1 (NP_005580.1, 1 a.a. ~ 535 a.a) full-length human protein.

Sequence	MAALLAAAVRARILQVSSKVKSSPTWYSASSFSSSVPTVKLFIGGKFVESKSDKWIDIHNPATNE VIGRVPQATKAEMDAAIASCKRAFPWADTSVLSRQQVLLRYQQLIKENLKEIAKLITLEQGKTLAD AEGDVFRGLQVVEHACSVTSLMMGETMPSITKDMDLYSYRLPLGVCAGIAPFNFPAMIPLWMFP MAMVCGNTFLMKPSERVPGATMLLAKLLQDSGAPDGTLNIIHGQHEAVNFICDHPDIKAISFVGSN KAGEYIFERGSRHGKRVQANMGAKNHGVVMPDANKENTLNQLVGAAFGAAGQRCMALSTAVLV GEAKKWLPVELVEHAKNLRVNAGDQPGADLGPLTPQAKERVCNLIDSGTKEGASILLDGRKIKVK GYENGFVGPITISNVKPNMTCYKEEIFGPVLVLETTETLDEAIQVNNNPYNGTAIFTTNGATARKY AHLVDVGQVGVNPIPVPLPMFSFTGSRSSFRGDTNFGYKQGIQFYTLKTTTSQWKEEDATLSS PAVVMPTMGR
Host	Mouse
Reactivity	Human
Interspecies Antigen Sequence	Mouse (95); Rat (95)
Quality Control Testing	Antibody reactive against mammalian transfected lysate.
Storage Buffer	No additive
Storage Instruction	Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.
Note	For IHC and IF applications, antibody purification with Protein A will be needed prior to use.

Applications

- Western Blot (Tissue lysate)

ALDH6A1 MaxPab polyclonal antibody. Western Blot analysis of ALDH6A1 expression in human liver.

[Protocol Download](#)

- Western Blot (Transfected lysate)

Western Blot analysis of ALDH6A1 expression in transfected 293T cell line ([H00004329-T01](#)) by ALDH6A1 MaxPab polyclonal antibody.

Lane 1: ALDH6A1 transfected lysate(58.85 KDa).

Lane 2: Non-transfected lysate.

[Protocol Download](#)

Gene Info — ALDH6A1

Entrez GeneID [4329](#)

GeneBank Accession# [NM_005589.2](#)

Protein Accession#	NP_005580.1
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

- [Network Clustering Revealed the Systemic Alterations of Mitochondrial Protein Expression.](#)

Jeon J, Jeong JH, Baek JH, Koo HJ, Park WH, Yang JS, Yu MH, Kim S, Pak YK.

PLoS Computational Biology 2011 Jun; 7(6):e1002093.

Application: WB-Ce, Human, 143B TK- osteosarcoma cells

Pathway

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

Disease

- [Tobacco Use Disorder](#)