

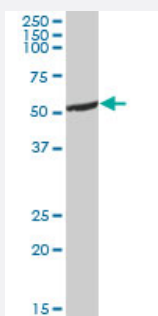
MaxPab®

ALDH5A1 purified MaxPab mouse polyclonal antibody (B01P)

Catalog # H00007915-B01P

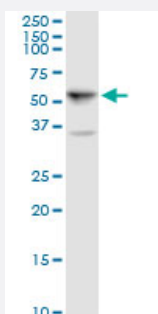
Size 50 ug

Applications



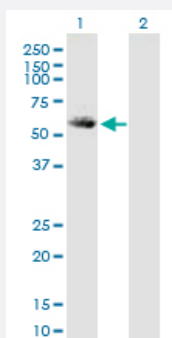
Western Blot (Tissue lysate)

ALDH5A1 MaxPab polyclonal antibody. Western Blot analysis of ALDH5A1 expression in human liver.



Western Blot (Cell lysate)

ALDH5A1 MaxPab polyclonal antibody. Western Blot analysis of ALDH5A1 expression in K-562.



Western Blot (Transfected lysate)

Western Blot analysis of ALDH5A1 expression in transfected 293T cell line ([H00007915-T01](#)) by ALDH5A1 MaxPab polyclonal antibody.

Lane 1: ALDH5A1 transfected lysate(58.85 KDa).

Lane 2: Non-transfected lysate.

Specification

Product Description

Mouse polyclonal antibody raised against a full-length human ALDH5A1 protein.

Immunogen	ALDH5A1 (NP_001071.1, 1 a.a. ~ 535 a.a) full-length human protein.
Sequence	MATCWLRLSCGARRLGSTFPGCRLRPRAGGLVPASGPAPGPAQLRCYAGRLAGLSAALLRTDSF VGGRWLPAAATFPVQDPASGAALGMVADCGVREARAARAAYEAFCRWREVSARKERSLLRK WYNLMIQNKDDLARIITAESGKPLKEAHGEILYSAFFLEWFSEEARRVYGDIIHTPAKDRRALVLKQP IGVAAVITPWNFPSAMITRKVGAAALAAGCTVVVKPAEDTPFSALALAEASQAGIPSGVYNVPCSR KNAKEVGEAICTDPLVSKISFTGSTTTGKILLHHAANSVKRVSMELGGLAPFIVFDSANVDQAVAG AMASKFRNTGQTCVCSNQFLVQRGIHDAFVKAFAMKKNLRVGNNGFEEGTTQGPLINEKAVEK VEKQVNDVAVSKGATVVTGGKRHLGKNFFFEPTLLCNVTQDMLCTHEETFGPLAPVIKFDTEEEAI AANAADVGLAGYFYSQDPAQMRVAEQLEVGMVGVNEGLISSVECPFGGVKQSGLGREGSKYGI DEYLELKVVCYGGGL
Host	Mouse
Reactivity	Human
Quality Control Testing	Antibody reactive against mammalian transfected lysate.
Storage Buffer	In 1x PBS, pH 7.4
Storage Instruction	Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.

Applications

- Western Blot (Tissue lysate)

ALDH5A1 MaxPab polyclonal antibody. Western Blot analysis of ALDH5A1 expression in human liver.

[Protocol Download](#)

- Western Blot (Cell lysate)

ALDH5A1 MaxPab polyclonal antibody. Western Blot analysis of ALDH5A1 expression in K-562.

[Protocol Download](#)

- Western Blot (Transfected lysate)

Western Blot analysis of ALDH5A1 expression in transfected 293T cell line ([H00007915-T01](#)) by ALDH5A1 MaxPab polyclonal antibody.

Lane 1: ALDH5A1 transfected lysate(58.85 KDa).

Lane 2: Non-transfected lysate.

[Protocol Download](#)

Gene Info — ALDH5A1

Entrez GeneID	7915
GeneBank Accession#	NM_001080.3
Protein Accession#	NP_001071.1
Gene Name	ALDH5A1
Gene Alias	SSADH, SSDH
Gene Description	aldehyde dehydrogenase 5 family, member A1
Omim ID	271980 610045
Gene Ontology	Hyperlink
Gene Summary	This protein belongs to the aldehyde dehydrogenase family of proteins. This gene encodes a mitochondrial NAD(+)-dependent succinic semialdehyde dehydrogenase. A deficiency of this enzyme, known as 4-hydroxybutyricaciduria, is a rare inborn error in the metabolism of the neurotransmitter 4-aminobutyric acid (GABA). In response to the defect, physiologic fluids from patients accumulate GHB, a compound with numerous neuromodulatory properties. Two transcript variants encoding distinct isoforms have been identified for this gene. [provided by RefSeq]
Other Designations	NAD(+)-dependent succinic semialdehyde dehydrogenase OTTHUMP00000016088 aldehyde dehydrogenase 5A1 mitochondrial succinate semialdehyde dehydrogenase succinate-semialdehyde dehydrogenase

Publication Reference

- [Novel ALDH5A1 variants and genotype: Phenotype correlation in SSADH deficiency.](#)

Melissa L DiBacco, Ana Pop, Gajja S Salomons, Ellen Hanson, Jean-Baptiste Roulet, K Michael Gibson, Phillip L Pearl.
Neurology 2020 Nov; 95(19):e2675.

Application: WB-Tr, Human, HEK 293 cells

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