10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

Aldehyde dehydrogenase 10 Antibody

Purified Mouse Monoclonal Antibody (Mab)
Catalog # AP52746

Product Information

Application	WB
Primary Accession	P51648
Reactivity	Human
Host	Mouse
Clonality	Monoclonal
Isotype	IgG2a
Calculated MW	54848

Additional Information

Gene ID	224
Other Names	Aldehyde dehydrogenase;Aldehyde dehydrogenase 10;Aldehyde dehydrogenase 3 family member A2;ALDH10;ALDH3A2;DKFZp686E23276;FALDH;Fatty aldehyde dehydrogenase;FLJ20851;Microsomal aldehyde dehydrogenase;OTTHUMP00000065799;OTTHUMP00000065800;OTTHUMP00000065801;SLS.
Dilution	WB~~1:1000
Format	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide, pH 7.3.
Storage	Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze/thaw cycles.

Protein Information

Name	ALDH3A2
Function	Catalyzes the oxidation of medium and long chain aliphatic aldehydes to fatty acids. Active on a variety of saturated and unsaturated aliphatic aldehydes between 6 and 24 carbons in length (PubMed:18035827, PubMed:18182499, PubMed:22633490, PubMed:25047030, PubMed:9133646, PubMed:9662422). Responsible for conversion of the sphingosine 1-phosphate (S1P) degradation product hexadecenal to hexadecenoic acid (PubMed:22633490).
Cellular Location	Microsome membrane; Single-pass membrane protein. Endoplasmic reticulum membrane; Single-pass membrane protein; Cytoplasmic side {ECO:0000250|UniProtKB:P30839}

Tissue Location Detected in liver (at protein level).

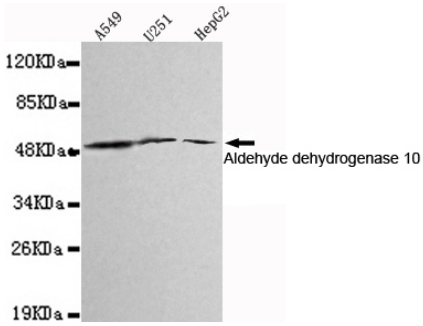
Background

Catalyzes the oxidation of long-chain aliphatic aldehydes to fatty acids. Active on a variety of saturated and unsaturated aliphatic aldehydes between 6 and 24 carbons in length. Responsible for conversion of the sphingosine 1-phosphate (S1P) degradation product hexadecenal to hexadecenoic acid.

References

de Laurenzi V.,et al.Nat. Genet. 12:52-57(1996).
Rogers G.R.,et al.Genomics 39:127-135(1997).
Chang C.,et al.Genomics 40:80-85(1997).
Ota T.,et al.Nat. Genet. 36:40-45(2004).
Ebert L.,et al.Submitted (JUN-2004) to the EMBL/GenBank/DDBJ databases.

Images



Western blot detection of Aldehyde dehydrogenase 10 in A549,U251 and HepG2 cell lysates using Aldehyde dehydrogenase 10 mouse mAb (1:1000 diluted).Predicted band size:55KDa.Observed band size:55KDa.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.