

Aldehyde dehydrogenase 10 Antibody

Purified Mouse Monoclonal Antibody (Mab)

Catalog # AP52746

Product Information

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

Additional Information

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|-------------|--|
| 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;OTTHUMP0000065799;OTTHUMP00000065800;OTTHUMP00000065801;SLS. |
| Dilution | WB~~1:1000 |
| Format | Purified mouse monoclonal in buffer containing 0.1M Tris-Glycine (pH 7.4, 150 mM NaCl) with 0.09% (W/V) sodium azide, 50%,glycerol |
| Storage | Store at -20 °C.Stable for 12 months from date of receipt |

Protein Information

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|-------------------|--|
| 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} Detected in liver (at protein level). |

Tissue Location

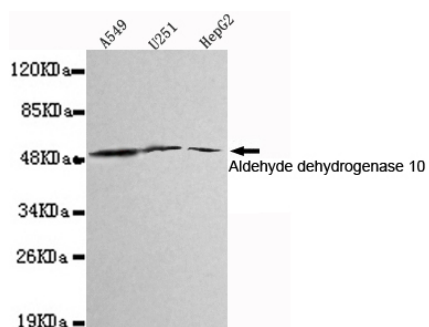
Background

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'.