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ALDH1L1 Antibody (monoclonal) (M01)

Mouse monoclonal antibody raised against a partial recombinant ALDH1L1.
Catalog # AT1111a

Product Information

Application	WB, IHC, IF, E
Primary Accession	O75891
Other Accession	NM_012190
Reactivity	Human, Mouse
Host	mouse
Clonality	monoclonal
Isotype	IgG3 Kappa
Clone Names	3E10
Calculated MW	98829

Additional Information

Gene ID	10840
Other Names	Cytosolic 10-formyltetrahydrofolate dehydrogenase, 10-FTHFDH, FDH, Aldehyde dehydrogenase family 1 member L1, ALDH1L1, FTHFD
Target/Specificity	ALDH1L1 (NP_036322, 803 a.a. ~ 902 a.a) partial recombinant protein with GST tag. MW of the GST tag alone is 26 KDa.
Dilution	WB~~1:500~1000 IHC~~1:100~500 IF~~1:50~200 E~~N/A
Format	Clear, colorless solution in phosphate buffered saline, pH 7.2 .
Storage	Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.
Precautions	ALDH1L1 Antibody (monoclonal) (M01) is for research use only and not for use in diagnostic or therapeutic procedures.

Background

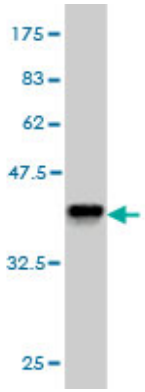
The protein encoded by this gene catalyzes the conversion of 10-formyltetrahydrofolate, NADP, and water to tetrahydrofolate, NADPH, and carbon dioxide. The encoded protein belongs to the aldehyde dehydrogenase family and is responsible for formate oxidation in vivo. Deficiencies in this gene can result in an accumulation of formate and subsequent methanol poisoning.

References

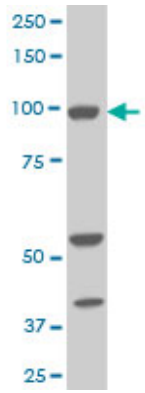
Maternal genes and facial clefts in offspring: a comprehensive search for genetic associations in two population-based cleft studies from Scandinavia. Jugessur A, et al. PLoS One, 2010 Jul 9. PMID 20634891.

Variation at the NFATC2 Locus Increases the Risk of Thiazolinedinedione-Induced Edema in the Diabetes REduction Assessment with ramipril and rosiglitazone Medication (DREAM) Study. Bailey SD, et al. Diabetes Care, 2010 Jul 13. PMID 20628086. A Large-scale genetic association study of esophageal adenocarcinoma risk. Liu CY, et al. Carcinogenesis, 2010 Jul. PMID 20453000. Association of genetic variants with hemorrhagic stroke in Japanese individuals. Yoshida T, et al. Int J Mol Med, 2010 Apr. PMID 20198315. Germline polymorphisms in the one-carbon metabolism pathway and DNA methylation in colorectal cancer. Hazra A, et al. Cancer Causes Control, 2010 Mar. PMID 19936946.

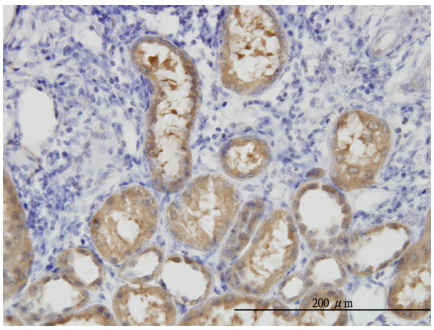
Images



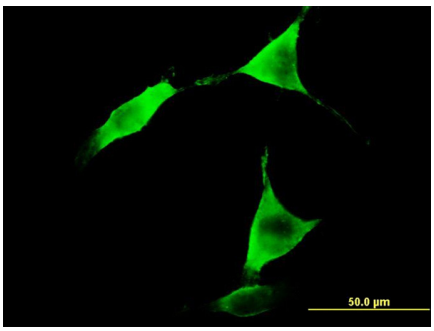
Antibody Reactive Against Recombinant Protein.Western Blot detection against Immunogen (36.74 KDa) .



ALDH1L1 monoclonal antibody (M01), clone 3E9 Western Blot analysis of ALDH1L1 expression in NIH/3T3 ((Cat # AT1111a)

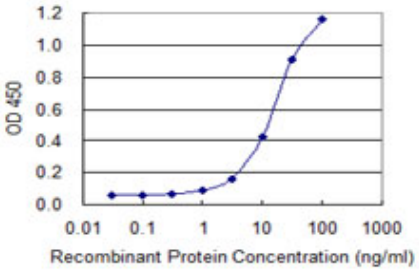


Immunoperoxidase of monoclonal antibody to ALDH1L1 on formalin-fixed paraffin-embedded human kidney. [antibody concentration 3 ug/ml]



Immunofluorescence of monoclonal antibody to ALDH1L1 on NIH/3T3 cell. [antibody concentration 10 ug/ml]

Detection limit for recombinant GST tagged ALDH1L1 is



0.3 ng/ml as a capture antibody.

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