

ALDH1L2 Polyclonal antibody

Catalog Number: 21391-1-AP

8 Publications

Basic Information

Catalog Number: 21391-1-AP	GenBank Accession Number: BC103935	Purification Method: Antigen affinity purification
Size: 150ul , Concentration: 600 µg/ml by Nanodrop;	GeneID (NCBI): 160428	Recommended Dilutions: WB 1:500-1:3000 IHC 1:20-1:200 IF 1:200-1:800
Source: Rabbit	Full Name: aldehyde dehydrogenase 1 family, member L2	
Isotype: IgG	Calculated MW: 923 aa, 102 kDa	
Immunogen Catalog Number: AG16046	Observed MW: 102 kDa, 89 kDa	

Applications

Tested Applications: IF, IHC, WB, ELISA	Positive Controls:
Cited Applications: IHC, WB	WB : mouse pancreas tissue, rat pancreas tissue
Species Specificity: human, mouse, rat	IHC : human pancreas tissue, human heart tissue
Cited Species: human, mouse, pig	IF : A431 cells,
Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0	

Background Information

ALDH1L2(Aldehyde dehydrogenase family 1 member L2) is also named as mitochondrial 10-FTHFDH, mtFDH and belongs to the aldehyde dehydrogenase family and ALDH1L subfamily. The ALDH1L2 gene has three transcriptional variants with the molecular weight of 102 kDa, 42 kDa and 89 kDa(PMID:19823103). It is a mitochondrial enzyme, a likely source of CO₂ production from 10-formyltetrahydrofolate in mitochondria and playing an essential role in the distribution of one-carbon groups between the cytosolic and mitochondrial compartments of the cell(PMID: 20498374). It also has dehydrogenase/hydrolase activities similar to cytosolic FDH (ALDH1L1). The native ALDH1L2 has been reported to exist as a dimer or tetramer(PMID:7822273).

Notable Publications

Author	Pubmed ID	Journal	Application
Alessandra Fiore	35245456	Mol Cell	WB
Eduardo Balsa	32483148	Nat Commun	WB
Yang Zhang	35857842	Sci Adv	IHC

Storage

Storage:
Store at -20°C. Stable for one year after shipment.

Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.

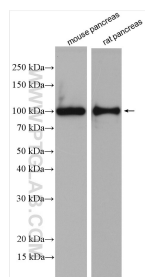
Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

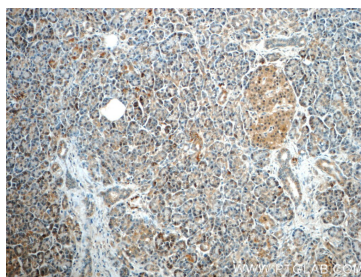
For technical support and original validation data for this product please contact:
 T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
 E: proteintech@ptglab.com
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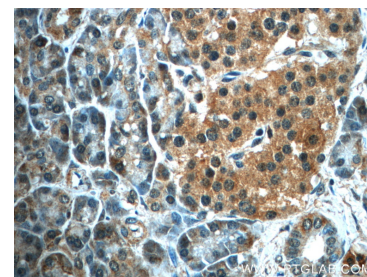
Selected Validation Data



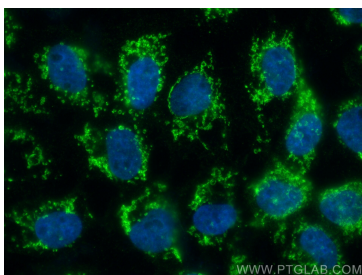
Various lysates were subjected to SDS PAGE followed by western blot with 21391-1-AP (ALDH1L2 antibody) at dilution of 1:1500 incubated at room temperature for 1.5 hours.



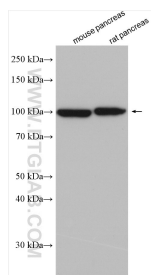
Immunohistochemical analysis of paraffin-embedded human pancreas slide using 21391-1-AP (ALDH1L2 Antibody) at dilution of 1:50.



Immunohistochemical analysis of paraffin-embedded human pancreas slide using 21391-1-AP (ALDH1L2 Antibody) at dilution of 1:50.



Immunofluorescent analysis of (4% PFA) fixed A431 cells using ALDH1L2 antibody (21391-1-AP) at dilution of 1:400 and CoraLite® 488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).



Various lysates were subjected to SDS PAGE followed by western blot with 21391-1-AP (ALDH1L2 antibody) at dilution of 1:8000 incubated at room temperature for 1.5 hours.