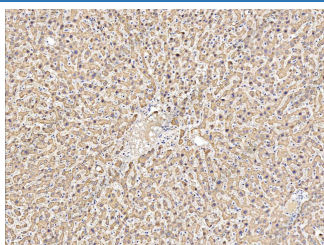


Recombinant ALDH7A1 Monoclonal Antibody

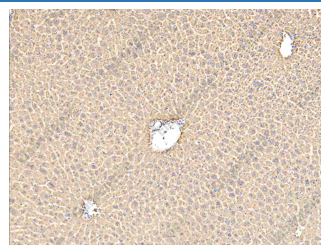
catalog number: **AN300069P**

Note: *Centrifuge before opening to ensure complete recovery of vial contents.*

Description	
Reactivity	Human;Mouse;Rat
Immunogen	Recombinant Human ALDH7A1 protein
Host	Rabbit
Isotype	Rabbit IgG
Clone	C110054
Purification	Protein A
Buffer	0.2 µm filtered solution in PBS
Applications	
Recommended Dilution	
WB:	1:2000-1:20000; IHC-P: 1:200-1:2000; ICC/IF: 1:50; FC: 1:20; IP: 1:20
Data	



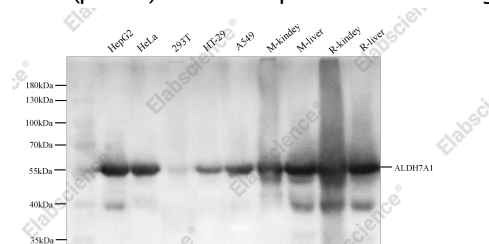
Immunohistochemical analysis of paraffin-embedded Human liver tissue sections using ALDH7A1 Antibody (AN300069P) at a dilution of 1:300 (10× lens). Heat mediated antigen retrieval was performed with Tris-EDTA buffer (pH 9.0) for 20 min prior to IHC staining.



Immunohistochemical analysis of paraffin-embedded Mouse liver tissue sections using ALDH7A1 Antibody (AN300069P) at a dilution of 1:300 (10× lens). Heat mediated antigen retrieval was performed with Tris-EDTA buffer (pH 9.0) for 20 min prior to IHC staining.



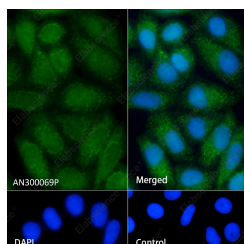
Immunohistochemical analysis of paraffin-embedded Rat liver tissue sections using ALDH7A1 Antibody (AN300069P) at a dilution of 1:300 (10× lens). Heat mediated antigen retrieval was performed with Tris-EDTA buffer (pH 9.0) for 20 min prior to IHC staining.



Western blot analysis of HepG2, HeLa, 293T, HT-29, A549, Mouse kidney, Mouse liver, Rat kidney and Rat liver cell lysates using ALDH7A1 Antibody (AN300069P) at a dilution of 1:3000.

Observed-MW:59 kDa

Calculated-MW:59 kDa



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Immunofluorescence analysis of HepG2 cells labelling

ALDH7A1. Nuclear DNA was labeled in blue with DAPI.

Control: Secondary antibody only.

Preparation & Storage

Storage Store at -20°C Valid for 12 months. Avoid freeze / thaw cycles.

Shipping Ice bag

Background

The protein encoded by this gene is a member of subfamily 7 in the aldehyde dehydrogenase gene family. These enzymes are thought to play a major role in the detoxification of aldehydes generated by alcohol metabolism and lipid peroxidation. This particular member has homology to a previously described protein from the green garden pea, the 26g pea turgor protein. It is also involved in lysine catabolism that is known to occur in the mitochondrial matrix. Recent reports show that this protein is found both in the cytosol and the mitochondria, and the two forms likely arise from the use of alternative translation initiation sites. An additional variant encoding a different isoform has also been found for this gene. Mutations in this gene are associated with pyridoxine-dependent epilepsy. Several related pseudogenes have also been identified. [provided by RefSeq, Jan 2011]

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