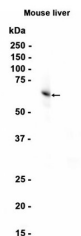
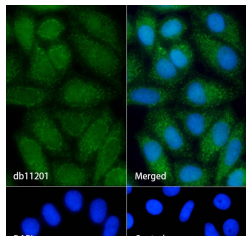


Recombinant ALDH7A1 Monoclonal Antibody

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	IgG
Clone	A1179
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	
 Western blot analysis of extracts from Mouse liver tissue at 1:1000. Observed-MW:59 kDa Calculated-MW:59 kDa	 Immunofluorescence analysis of HepG2 cells labelling ALDH7A1. The cells were fixed with 4% PFA (10min, RT) followed by treatment with 0.1% Triton X-100 (10min, RT), and blocked in 1% BSA/10% normal goat serum/0.3M glycine in 0.1% PBS-Tween 20 for 1h. The cells were then incubate (1:50) at room temprature for 1h, followed by a further incubation at room temperature for 45min with Goat Anti Rabbit IgG (H+L)-AF488 (shown in green). 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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