

## Recombinant ALDH7A1 Monoclonal Antibody

catalog number: **AN300070P**

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

### Description

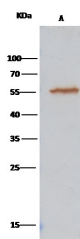
<b>Reactivity</b>	Human
<b>Immunogen</b>	Recombinant Human ALDH7A1 protein
<b>Host</b>	Rabbit
<b>Isotype</b>	IgG
<b>Clone</b>	A1180
<b>Purification</b>	Protein A
<b>Buffer</b>	0.2 µm filtered solution in PBS

### Applications

### Recommended Dilution

<b>WB</b>	1:1000-1:5000
<b>IP</b>	1-4 µL/mg of lysate

### Data



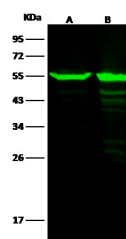
Immunoprecipitation analysis using 2 µL anti-ALDH7A1 Monoclonal Antibody and 15 µL of 50 % Protein G agarose.

Western blot was performed from the immunoprecipitate using ALDH7A1 Monoclonal Antibody at a dilution of 1:100.

Lane A: 0.5 mg HeLa Whole Cell Lysate

**Observed-MW: 55 kDa**

**Calculated-MW: 55 kDa**



Western Blot with ALDH7A1 Monoclonal Antibody at dilution of 1:1000. Lane A: HeLa Whole Cell Lysate, Lane B: HepG2

Whole Cell Lysate, Lysates/proteins at 30 µg per lane.

**Observed-MW: 55 kDa**

**Calculated-MW: 55 kDa**

### Preparation & Storage

<b>Storage</b>	This antibody can be stored at 2°C-8°C for one month without detectable loss of activity. Antibody products are stable for twelve months from date of receipt when stored at -20°C to -80°C. Preservative-Free. Avoid repeated freeze-thaw cycles.
<b>Shipping</b>	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 23g 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.

### For Research Use Only