

## Polyclonal Antibody to ACO1 / IREB1 - Aff - Purified

<b>Alternate names:</b>	Aconitase, Citrate hydro-lyase, Cytoplasmic aconitate hydratase, Ferritin repressor protein, IRP1, Iron regulatory protein 1, Iron-responsive element-binding protein 1
<b>Catalog No.:</b>	TA305638
<b>Quantity:</b>	0.1 mg
<b>Concentration:</b>	0.5 mg/ml
<b>Background:</b>	Aconitase 1 (ACO1) also known as iron regulatory element binding protein 1 (IREB1), is a cytosolic protein which binds to iron-responsive elements (IRES). IRES are translational regulatory sequences found in the 5'-UTR of ferritin, and in the 3'-UTR of transferrin receptor mRNA. Thus, IREB1 plays a central role in cellular iron homeostasis by regulating ferritin mRNA translation and TFRC mRNA stability.
<b>Uniprot ID:</b>	<a href="#">P21399</a>
<b>NCBI:</b>	<a href="#">NP_002188.1</a>
<b>GeneID:</b>	<a href="#">48</a>
<b>Host:</b>	Goat
<b>Immunogen:</b>	Peptide from the internal region of the protein sequence according to NP_002188.1 <b>Genename:</b> ACO1 <b>AA Sequence:</b> C-QVDFNRRADSLQKNQ
<b>Format:</b>	<b>State:</b> Liquid purified Ig fraction <b>Purification:</b> Ammonium Sulphate Precipitation followed by Antigen Affinity Chromatography using the immunizing peptide <b>Buffer System:</b> Tris saline, pH~7.3 containing 0.02% Sodium Azide and 0.5% BSA
<b>Applications:</b>	<b>Peptide ELISA:</b> 1/8000 (Detection Limit). <b>Western blot:</b> 0.1-0.3 µg/ml. Approx 100kDa band observed in Human Liver lysates (calculated MW of 98.4kDa according to NP_002188.1). Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.
<b>Specificity:</b>	This antibody detects ACO1 / IREB1 (Internal).
<b>Species Reactivity:</b>	<b>Tested:</b> Human. <b>Expected from sequence similarity:</b> Mouse, Rat, Cow.
<b>Storage:</b>	Store the antibody at 2-8°C for one week or (in aliquots) at -20°C for longer. Avoid repeated freezing and thawing. Shelf life: one year from despatch.

**Pictures:**

TA305638 (0.1ug/ml) staining of Human Liver lysate (35ug protein in RIPA buffer). Primary incubation was 1 hour. Detected by chemiluminescence.

