

Product datasheet for **TA321449**

Aconitase 1 (ACO1) Rabbit Polyclonal Antibody

Product data:

Product Type:	Primary Antibodies
Applications:	WB
Recommended Dilution:	WB: 1000-5000 WB positive control: Mouse liver tissue
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Immunogen:	Synthetic peptide corresponding to a region derived from 132-146 amino acids of human aconitase 1, soluble
Formulation:	PBS pH7.3, 0.05% NaN ₃ , 50% glycerol
Concentration:	lot specific
Purification:	Antigen affinity purification
Conjugation:	Unconjugated
Storage:	Store at -20°C as received.
Stability:	Stable for 12 months from date of receipt.
Predicted Protein Size:	98 kDa
Gene Name:	aconitase 1
Database Link:	NP_002188 Entrez Gene 11428 Mouse Entrez Gene 50655 Rat Entrez Gene 48 Human P21399
Background:	Aconitase 1; also known as iron regulatory element binding protein 1 (IREB1); is a cytosolic protein which binds to iron-responsive elements (IREs). IREs are stem-loop structures found in the 5' UTR of ferritin mRNA; and in the 3' UTR of transferrin receptor mRNA. The iron-induced binding to the IRE results in repression of translation of ferritin mRNA; and inhibition of degradation of the otherwise rapidly degrading transferrin receptor mRNA. Thus; IREB1 plays a central role in cellular iron homeostasis. It was also shown to have aconitase activity; and hence grouped with the aconitase family of enzymes.



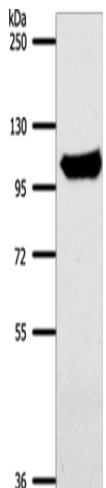
[View online »](#)

Synonyms: ACONS; HEL60; IREB1; IREBP; IREBP1; IRP1

Protein Families: Druggable Genome

Protein Pathways: Citrate cycle (TCA cycle), Glyoxylate and dicarboxylate metabolism, Metabolic pathways

Product images:



Gel: 8%SDS-PAGE
Lysate: 40 μ g
Lane: Mouse liver tissue
Primary antibody: TA321449 (ACO1 Antibody) at dilution 1/700
Secondary antibody: Goat anti rabbit IgG at 1/8000 dilution
Exposure time: 10 seconds