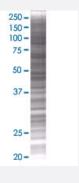


## ACO1 293T Cell Transient Overexpression Lysate(Denatured)

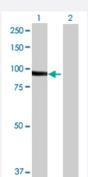
Catalog # H00000048-T01 Size 100 uL

### **Applications**



#### SDS-PAGE Gel

ACO1 transfected lysate.



#### Western Blot

Lane 1: ACO1 transfected lysate (97.9 KDa)

Lane 2: Non-transfected lysate.

Specification	
Transfected Cell Line	293T
Plasmid	pCMV-ACO1 full-length
Host	Human
Theoretical MW (kDa)	97.9
Interspecies Antigen Sequence	Mouse (93)



### **Product Information**

Quality Control Testing	Transient overexpression cell lysate was tested with Anti-ACO1 antibody (H00000048-B01) by West ern Blots.  SDS-PAGE Gel  ACO1 transfected lysate.  Western Blot  Lane 1: ACO1 transfected lysate (97.9 KDa)  Lane 2: Non-transfected lysate.
Storage Buffer	1X Sample Buffer (50 mM Tris-HCl, 2% SDS, 10% glycerol, 300 mM 2-mercaptoethanol, 0.01% Bro mophenol blue)
Storage Instruction	Store at -80°C. Aliquot to avoid repeated freezing and thawing.

# Applications

Western Blot

Gene Info — ACO1	
Entrez GeneID	<u>48</u>
GeneBank Accession#	NM_002197.1
Protein Accession#	NP_002188.1
Gene Name	ACO1
Gene Alias	ACONS, IREB1, IREBP1, IRP1
Gene Description	aconitase 1, soluble
Omim ID	100880
Gene Ontology	<u>Hyperlink</u>
Gene Summary	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' UT R 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. [provided by RefSeq
Other Designations	OTTHUMP00000021176 OTTHUMP00000021177 OTTHUMP00000045233 aconitase 1 aconita te hydratase citrate hydro-lyase ferritin repressor protein iron regulatory protein 1 iron-responsive element binding protein 1



### Pathway

- Biosynthesis of alkaloids derived from histidine and purine
- Biosynthesis of alkaloids derived from ornithine
- Biosynthesis of alkaloids derived from shikimate pathway
- Biosynthesis of alkaloids derived from terpenoid and polyketide
- Biosynthesis of phenylpropanoids
- Biosynthesis of plant hormones
- Biosynthesis of terpenoids and steroids
- Citrate cycle (TCA cycle)
- Glyoxylate and dicarboxylate metabolism
- Metabolic pathways
- Reductive carboxylate cycle (CO2 fixation)