

Phospho-ACO1 (Ser711) Polyclonal Antibody

Catalog No. E-AB-21213

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

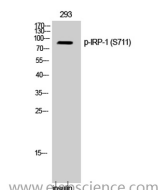
Description

Reactivity	Human,Mouse,Rat,Monkey
Immunogen	Synthesized peptide derived from human IRP-1 around the phosphorylation site of S711.
Host	Rabbit
Isotype	IgG
Purification	Affinity purification
Buffer	PBS with 0.02% sodium azide, 0.5% protective protein and 50% glycerol, pH7.4

Applications Recommended Dilution

WB	1:500-1:2000
IHC	1:100-1:300
ELISA	1:10000

Data



Western Blot analysis of 293 cells with Phospho-ACO1 (Ser711) Polyclonal Antibody
Observed Mw:85kDa
Calculated Mw:98kDa

Preparation & Storage

Storage Store at -20°C. Avoid freeze / thaw cycles.

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.

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