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## IRP-1 (phospho Ser711) Rabbit Polyclonal Antibody

## Catalog# BD-PP0754

## **Product information**

产品货号 BD-PP0754

别名 ACO1; IREB1; Cytoplasmic aconitate hydratase; Aconitase; Citrate hydro-lyase; Ferritin repressor

protein; Iron regulatory protein 1; IRP1; Iron-responsive element-binding protein 1; IRE-BP 1

产品名称 IRP-1 (phospho Ser711) Rabbit Polyclonal Antibody

类别 抗原抗体

基因名称 ACO1

蛋白名称 Cytoplasmic aconitate hydratase

推荐应用 WB,IHC-P,IF-P,IF-F,IF-ICC,ELISA

反应种属 Human, Mouse, Rat, Monkey

浓度 1 mg/ml

存储缓冲液 Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% New type preservative N.

Human Gene ID 48

Human Gene Link http://www.ncbi.nlm.nih.gov/sites/entrez?db=gene&term=48

Human Swissprot Link http://www.uniprot.org/uniprotkb/P21399/entry

Mouse Gene ID 11428

Mouse Gene Link http://www.ncbi.nlm.nih.gov/sites/entrez?db=gene&term=11428

Mouse Swissprot No. P28271

Mouse Swissprot Link http://www.uniprot.org/uniprot/P28271

Rat Gene ID 50655

Rat Gene Link http://www.ncbi.nlm.nih.gov/sites/entrez?db=gene&term=50655

Rat Swissprot No. Q63270

Rat Swissprot Link http://www.uniprot.org/uniprot/Q63270

1/2

免疫原 The antiserum was produced against synthesized peptide derived from human IREB1 around the

phosphorylation site of Ser711. AA range:681-730

特异性 Phospho-IRP-1 (S711) Polyclonal Antibody detects endogenous levels of IRP-1 protein only when

phosphorylated at S711.

稀释度 WB 1:500-1:2000, IHC-P 1:100-1:300, ELISA 1:10000, IF-P/IF-F/IF-ICC 1:50-200

预测分子量 85kDa

运输及保存条件 -20°C/1 year

宿主 Rabbit

背景介绍

功能

同种型 Rabbit,IgG

enzyme in the TCA cycle and interacts with mRNA to control the levels of iron inside cells. When cellular iron levels are high, this protein binds to a 4Fe-4S cluster and functions as an aconitase. Aconitases are iron-sulfur proteins that function to catalyze the conversion of citrate to isocitrate. When cellular iron levels are low, the protein binds to iron-responsive elements (IREs), which are stem-loop structures found in the 5' UTR of ferritin mRNA, and in the 3' UTR of transferrin receptor mRNA. When the protein binds to IRE, it results in repression of translation of ferritin mRNA, and inhibition of degradation of the otherwise rapidly degraded transferrin receptor mRNA. The encoded protein has been identified as a moonlighting protein based on its ability to perform mechanistically

The protein encoded by this gene is a bifunctional, cytosolic protein that functions as an essential

distinct

组织表达 Brain,Brain astrocytoma,Uterus,

细胞定位 Cytoplasm, cytosol.

信号通路 Citrate cycle (TCA cycle);Glyoxylate and dicarboxylate metabolism;

catalytic activity:Citrate = isocitrate.,cofactor:Binds 1 4Fe-4S cluster per subunit.,function:Binds to iron-responsive elements (IRES), which are stem-loop structures found in the 5'-UTR of ferritin, and delta aminolevulinic acid synthase mRNAs, and in the 3'-UTR of transferrin receptor mRNA. Binding to the IRE element in ferritin results in the repression of its mRNA translation. Binding of

the protein to the transferrin receptor mRNA inhibits the degradation of this otherwise rapidly degraded mRNA. This protein also expresses aconitase activity, online information: Aconitase

entry, similarity: Belongs to the aconitase/IPM isomerase family.,

纯化 The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-

specific immunogen.

Clonality Polyclonal

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