产品名称: IRP-1 (phospho Ser138) Rabbit Polyclonal

Antibody

产品货号: APRab04873



产品概述 (Summary)

产品名称 (Production Name) IRP-1 (phospho Ser138) Rabbit Polyclonal Antibody

描述 (Description) Rabbit polyclonal Antibody

宿主 (Host) Rabbit

应用 (Application)WB,IHC,ICC/IF,ELISA种属反应性 (Reactivity)Human,Mouse,Rat

产品性能 (Performance)

偶联物 (Conjugation)Unconjugated修饰 (Modification)Phosphorylated

同种型 (Isotype) IgG

克隆 (Clonality) Polyclonal 形式 (Form) Liquid

Store at 4°C short term. Aliquot and store at -20°C long term. Avoid 存放说明 (Storage)

freeze/thaw cycles.

Liquid in PBS containing 50% glycerol, 0.5% protective protein and 0.02% 储存溶液 (Buffer)

New type preservative N.

纯化方式 (Purification) Affinity purification

免疫原信息 (Immunogen)

基因名 (Gene Name) ACO1

ACO1; IREB1; Cytoplasmic aconitate hydratase; Aconitase; Citrate hydro-lyase;

别名 (Alternative Names) Ferritin repressor protein; Iron regulatory protein 1; IRP1; Iron-responsive

element-binding protein 1; IRE-BP 1

基因 ID (Gene ID) 48.0

P21399.The antiserum was produced against synthesized peptide derived

蛋白 ID (SwissProt ID) from human IREB1 around the phosphorylation site of Ser138. AA range:106-

155

产品应用(Application)

Web:https://www.enkilife.cn E-mail:order@enkilife.cn (销售) tech@enkilife.cn (技支持) Tel:027-87002838

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稀释比 (Dilution Ratio)

WB 1:1000-1:5000,IHC 1:100-1:300,ICC/IF 1:200-1:1000,ELISA 1:5000-1:20000

蛋白分子量 (Molecular Weight)

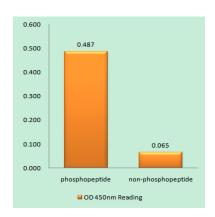
研究背景 (Background)

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

研究领域 (Research Area)

Citrate cycle (TCA cycle); Glyoxylate and dicarboxylate metabolism;

图片 (Image Data)



Enzyme-Linked Immunosorbent Assay (Phospho-ELISA) for Immunogen Phosphopeptide (Phospho-left) and Non-Phosphopeptide (Phospho-right) , using IREB1 (Phospho-Ser138) Antibody

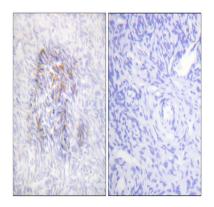
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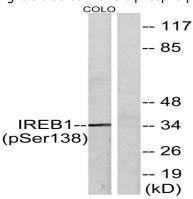
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Immunohistochemistry analysis of paraffin-embedded human ovary, using IREB1 (Phospho-Ser138) Antibody. The picture on the right is blocked with the phospho peptide.



Western blot analysis of IREB1 (Phospho-Ser138) Antibody. The lane on the right is blocked with the IREB1 (Phospho-Ser138) peptide.

注意事项 (Note)

For research use only.

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