

铁调节蛋白1抗体

产品货号：mlR9848

英文名称：Aconitase 1

中文名称：铁调节蛋白1抗体

别名：ACO 1; ACO1; ACOC_HUMAN; Aconitase 1 soluble; Aconitase; Aconitase1; Aconitate hydratase; ACONS; Citrate hydro lyase; Citrate hydro-lyase; Cytoplasmic aconitate hydratase; Ferritin repressor protein; IRE BP 1; IRE-BP 1; IREB 1; IREB1; IREBP; IREBP1; Iron regulatory protein 1; Iron responsive element binding protein 1; Iron-responsive element-binding protein 1; IRP 1; IRP1.

研究领域：肿瘤 心血管 细胞生物 信号转导 表观遗传学

抗体来源：Rabbit

克隆类型：Polyclonal

交叉反应：Human, Mouse, Rat, Pig, Cow, Rabbit, Sheep,

产品应用：WB=1:500-2000 ELISA=1:500-1000 IHC-P=1:400-800 IHC-F=1:400-800 IF=1:50-200（石蜡切片需做抗原修复）

not yet tested in other applications.

optimal dilutions/concentrations should be determined by the end user.

分子量：98kDa

细胞定位：细胞浆

性状：Lyophilized or Liquid

浓度：1mg/ml

免疫原：KLH conjugated synthetic peptide derived from human Aconitase 1/IRP-1:101-200/889

亚型：IgG

纯化方法：affinity purified by Protein A

储存液 : 0.01M TBS(pH7.4) with 1% BSA, 0.03% Proclin300 and 50% Glycerol.

保存条件 : Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. The lyophilized antibody is stable at room temperature for at least one month and for greater than a year when kept at -20°C. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.

PubMed : PubMed

产品介绍 : Iron metabolism is essential for sustaining mammalian homeostasis. Iron uptake and distribution is a highly regulated process in mammalian cells that is monitored by two iron sensing proteins; iron regulatory protein-1 and -2 (IRP-1 and -2), also known as iron responsive element-binding protein-1 and -2 (IRE-BP-1 and -2) or aconitase 1 and 2. IRP-1 and IRP-2 are important soluble regulatory factors that mediate iron uptake and storage in mammalian cells. They are capable of either repressing translation or enhancing mRNA stability by associating with stem-loop motifs known as iron-responsive elements (IREs). IRPs respond to stress mediators, iron concentration and signaling factors, including nitrogen monoxide, cytokines and hydrogen peroxide.

Function:

Iron sensor. Binds a 4Fe-4S cluster and functions as aconitase when cellular iron levels are high. Functions as mRNA binding protein that regulates uptake, sequestration and utilization of iron when cellular iron levels are low. Binds to iron-responsive elements (IRES) in target mRNA species when iron levels are low. Binding of a 4Fe-4S cluster precludes RNA binding.

Subunit:

Interacts (when associated with the 4Fe-4S) with FBXL5. Interacts with frataxin(81-210).

Subcellular Location:

Cytoplasm.

Similarity:

Belongs to the aconitase/IPM isomerase family.

SWISS:

P21399

Gene ID:

48

Important Note:

This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.

产品图片

