

bs-9848R**[Primary Antibody]****BioSS**
ANTIBODIES

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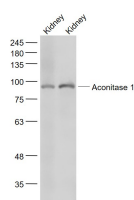
sales@bioss.com.cn

techsupport@bioss.com.cn

400-901-9800

Aconitase 1 Rabbit pAb**DATASHEET**

Host: Rabbit Clonality: Polyclonal GeneID: 48 Target: Aconitase 1 Immunogen: KLH conjugated synthetic peptide derived from human Aconitase 1/IRP-1: 101-200/889. Purification: affinity purified by Protein A Concentration: 1mg/ml Storage: 0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol. Shipped at 4°C. Store at -20°C for one year. Avoid repeated freeze/thaw cycles. Background: 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.	Isotype: IgG SWISS: P21399 Applications: WB (1:500-2000) Reactivity: Mouse, Rat (predicted: Human, Rabbit, Pig, Sheep, Cow) Predicted MW.: 98 kDa Subcellular Location: Cytoplasm
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VALIDATION IMAGES

Sample: Kidney (Mouse) Lysate at 40 ug
Kidney(Rat) Lysate at 40 ug Primary: Anti-Aconitase 1 (bs-9848R) at 1/1000 dilution
Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution Predicted band size: 98 kD
Observed band size: 98 kD

SELECTED CITATIONS

- **[IF=6.706]** Keyuan Chen. et al. Lactobacillus johnsonii L531 Ameliorates Salmonella enterica Serovar Typhimurium Diarrhea by Modulating Iron Homeostasis and Oxidative Stress via the IRP2 Pathway. NUTRIENTS. 2023 Jan;15(5):1127 WB ;Mouse,Pig,Human. 36904126
- **[IF=5.4]** Lihua Hu. et al. Fine particulate matter promotes airway inflammation and mucin production by activating endoplasmic reticulum stress and the IRE1α/NOD1/NF-κB pathway. INT J MOL MED. 2023 Oct;52(4):1-13 IF ;Human. 37654182

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