

bs-4484R**[Primary Antibody]**

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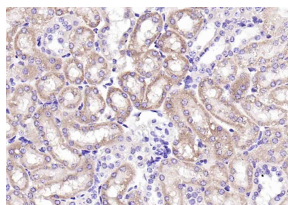
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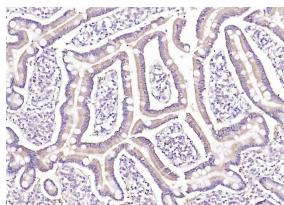
400-901-9800

IREB2 Rabbit pAb**— DATASHEET —**

Host: Rabbit	Isotype: IgG	Applications: IHC-P (1:100-500) IHC-F (1:100-500) IF (1:100-500)
Clonality: Polyclonal		
GeneID: 3658	SWISS: P48200	
Target: IREB2		Reactivity: Human, Mouse (predicted: Rat, Rabbit, Chicken, Dog)
Immunogen: KLH conjugated synthetic peptide derived from human IREB2: 101-200/963.		
Purification: affinity purified by Protein A		Predicted MW.: 105 kDa
Concentration: 1mg/ml		Subcellular Location: Cytoplasm
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: IRP-1 and -2 (iron regulatory protein-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.		

— VALIDATION IMAGES —

Paraformaldehyde-fixed, paraffin embedded (mouse kidney); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (IREB2) Polyclonal Antibody, Unconjugated (bs-4484R) at 1:200 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructions and DAB staining.



Paraformaldehyde-fixed, paraffin embedded (Human duodenum); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (IREB2) Polyclonal Antibody, Unconjugated (bs-4484R) at 1:200 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructions and DAB staining.

— 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,IF ;Mouse,Pig,Human. 36904126
- **[IF=4.571]** Lingbing Zhang. et al. Disruption of the lung-gut-brain axis is responsible for cortex damage induced by

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pulmonary exposure to zinc oxide nanoparticles. TOXICOLOGY. 2022 Dec;;153390 WB ;Mouse. 36535435

- **[IF=3.628]** Sheng Zhang. et al. Realgar induced nephrotoxicity via ferroptosis in mice. J APPL TOXICOL. 2022 Jul 08 WB ;Mouse, Human. 35803278
- **[IF=3.076]** Tang Q et al. Ferroptosis is newly characterized form of neuronal cell death in response to arsenite exposure. Neurotoxicology. 2018 Jul;67:27-36. WB ;Mouse. 29678591
- **[IF=2.4]** Keyuan Chen. et al. Salmonella enterica serovar Typhimurium Effectors spiA and spiC Promote Replication by Modulating Iron Metabolism and Oxidative Stress. VET MICROBIOL. 2024 Dec;;110328 IF, WB ;Mouse. 39674031