

bsm-52750R**[Primary Antibody]****BioSS**
ANTIBODIES

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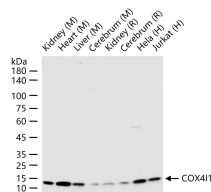
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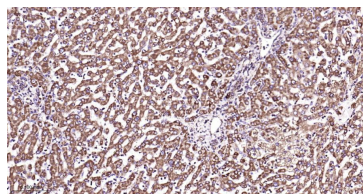
400-901-9800

COX4I1 Recombinant Rabbit mAb**— DATASHEET —**

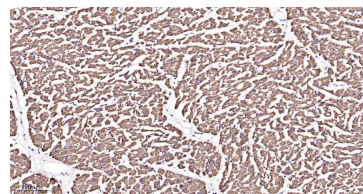
Host: Rabbit	Isotype: IgG	Applications: WB (1:500-2000) IHC-P (1:100-500) IHC-F (1:100-500) IF (1:100-500) Flow-Cyt (1:50-100)
Clonality: Recombinant	CloneNo.: 1C4	
GeneID: 1327	SWISS: P13073	
Target: COX4I1		
Immunogen: A synthesized peptide derived from human COX IV: 15-53.		
Purification: affinity purified by Protein A		Reactivity: Human, Mouse, Rat
Concentration: 1mg/ml		
Storage: 0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol. Store at -20°C for one year. Avoid repeated freeze/thaw cycles.		Predicted MW.: 17 kDa
Background: Cytochrome c oxidase (COX) is the terminal enzyme of the mitochondrial respiratory chain. It is a multi-subunit enzyme complex that couples the transfer of electrons from cytochrome c to molecular oxygen and contributes to a proton electrochemical gradient across the inner mitochondrial membrane. The complex consists of 13 mitochondrial- and nuclear-encoded subunits. The mitochondrially-encoded subunits perform the electron transfer and proton pumping activities. The functions of the nuclear-encoded subunits are unknown but they may play a role in the regulation and assembly of the complex. This gene encodes the nuclear-encoded subunit IV isoform 1 of the human mitochondrial respiratory chain enzyme. It is located at the 3' of the NOC4 (neighbor of COX4) gene in a head-to-head orientation, and shares a promoter with it. [provided by RefSeq, Jul 2008]		Subcellular Location: Cytoplasm

— VALIDATION IMAGES —

25 ug total protein per lane of various lysates (see on figure) probed with COX4I1 monoclonal antibody, unconjugated (bsm-52750R) at 1:1000 dilution and 4°C overnight incubation. Followed by conjugated secondary antibody incubation at r.t. for 60 min.



Paraformaldehyde-fixed, paraffin embedded Human Liver; Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; Antibody incubation with COX4I1 Monoclonal Antibody, Unconjugated (bsm-52750R) at 1:200 overnight at 4°C, followed by conjugation to the bs-0295G-HRP and DAB (C-0010) staining.



Paraformaldehyde-fixed, paraffin embedded Human Heart; Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; Antibody incubation with COX4I1 Monoclonal Antibody, Unconjugated (bsm-52750R) at 1:200 overnight at 4°C, followed by conjugation to the bs-0295G-HRP and DAB (C-0010) staining.

— SELECTED CITATIONS —

- **[IF=3.708]** Xuena Zhang. et al. Luteoloside Prevents Sevoflurane-induced Cognitive Dysfunction in Aged Rats via Maintaining Mitochondrial Function and Dynamics in Hippocampal Neurons. NEUROSCIENCE. 2023 Feb;; WB ;Rat. 36764603
- **[IF=3.8]** Feng-Xia Qu. et al. Treatment with a combination of myricitrin and exercise alleviates myocardial infarction in rats via suppressing Nrf2/HO-1 antioxidant pathway. ARCH BIOCHEM BIOPHYS. 2024 Sep;;110153 WB ;Rat. 39271097