

bs-3953R**[Primary Antibody]****COX1/MTCO1 Rabbit pAb****BioSS**
ANTIBODIES

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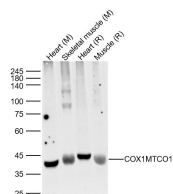
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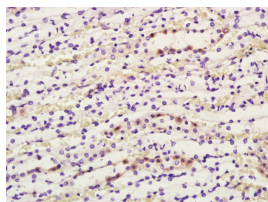
400-901-9800

DATASHEET

Host: Rabbit	Isotype: IgG	Applications: WB (1:500-2000) IHC-P (1:100-500) IHC-F (1:100-500) IF (1:100-500) Reactivity: Mouse, Rat (predicted: Human, Rabbit, Pig, Cow, Chicken, Dog, Horse) Predicted MW.: 57 kDa Subcellular Location: Cell membrane ,Cytoplasm
Clonality: Polyclonal		
GeneID: 4512	SWISS: P00395	
Target: COX1/MTCO1		
Immunogen: KLH conjugated synthetic peptide derived from human COX1: 401-500/513.		
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: Contributes to cytochrome-c oxidase activity. Predicted to be involved in electron transport coupled proton transport and mitochondrial electron transport, cytochrome c to oxygen. Part of mitochondrial respiratory chain complex III and mitochondrial respiratory chain complex IV. [provided by Alliance of Genome Resources, Apr 2022]		

VALIDATION IMAGES

Sample: Lane 1: Mouse Heart Lysates Lane 2: Mouse Skeletal muscle Lysates Lane 3: Rat Heart Lysates Lane 4: Rat Muscle Lysates Primary: Anti-COX1/MTCO1 (bs-3953R) at 1/1000 dilution Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution Predicted band size: 57kDa Observed band size: 45kDa



Paraformaldehyde-fixed, paraffin embedded (Rat 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 (COX1) Polyclonal Antibody, Unconjugated (bs-3953R) at 1:500 overnight at 4°C, followed by a conjugated secondary (sp-0023) for 20 minutes and DAB staining.

SELECTED CITATIONS

- **[IF=7.6]** Yan-Zhu Chen. et al. Acrolein exposure affects ovarian function by interfering with glycolysis and mitochondrial energy metabolism in mouse. ENVIRON POLLUT. 2024 Nov;361:124776 WB ;Mouse. 39173867
- **[IF=8.3]** Song Zhixia. et al. Inhibition of Drp1- Fis1 interaction alleviates aberrant mitochondrial fragmentation and acute kidney injury. CELL MOL BIOL LETT. 2024 Dec;29(1):1-23 IHC ;Pig. 38439028
- **[IF=6.684]** Ying Yang. et al. ING2 Controls Mitochondrial Respiration via Modulating MRPL12 Ubiquitination in Renal Tubular Epithelial Cells. Front Cell Dev Biol. 2021; 9: 700195 WB ;Mouse. 34434929
- **[IF=6.4]** Tengpeng Huang. et al. Eugenol mimics exercise to promote skeletal muscle fiber remodeling and myokine

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IL-15 expression by activating TRPV1 channel. ELIFE. 2024 Jun WB ;Mouse. 38913071

- **[IF=6.17]** Xia Gu. et al. Transcription of MRPL12 regulated by Nrf2 contributes to the mitochondrial dysfunction in diabetic kidney disease. Free Radical Bio Med. 2021 Feb;164:329 WB ;Human. 33444714