bs-10257R **[Primary Antibody]**

COX4I1 Rabbit pAb

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DATASHEET

Host: Rabbit **Isotype:** IgG

Clonality: Polyclonal

GeneID: 1327 **SWISS:** P13073

Target: COX4I1

Immunogen: KLH conjugated synthetic peptide derived from human COX4I1: 51-169/169.

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: 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]

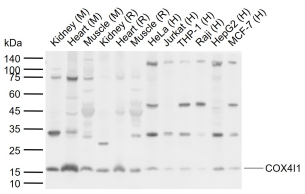
Applications: **WB** (1:500-2000)
IHC-P (1:100-500)
IHC-F (1:100-500)
IF (1:100-500)

Reactivity: Human, Mouse, Rat (predicted: Pig, Cow, Dog, Horse)

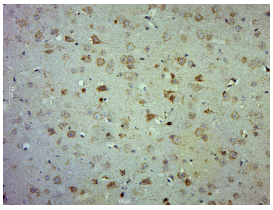
Predicted MW.: 17 kDa

Subcellular Location: Cytoplasm

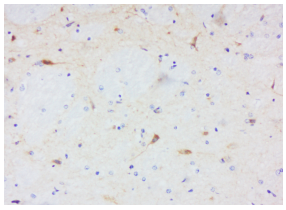
VALIDATION IMAGES



Sample: Lane 1: Mouse Kidney tissue lysates Lane 2: Mouse Heart tissue lysates Lane 3: Mouse Muscle tissue lysates Lane 4: Rat Kidney tissue lysates Lane 5: Rat Heart tissue lysates Lane 6: Rat Muscle tissue lysates Lane 7: Human HeLa cell lysates Lane 8: Human Jurkat cell lysates Lane 9: Human THP-1 cell lysates Lane 10: Human Raji cell lysates Lane 11: Human HepG2 cell lysates Lane 12: Human MCF-7 cell lysates Primary: Anti-COX4I1 (bs-10257R) at 1/1000 dilution Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution Predicted band size: 17 kDa Observed band size: 16 kDa



Paraformaldehyde-fixed, paraffin embedded (Mouse brain); 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 (COX4) Polyclonal Antibody, Unconjugated (bs-10257R) at 1:500 overnight at 4°C, followed by a conjugated secondary (sp-0023) for 20 minutes and DAB staining.



Tissue/cell: Rat brain tissue; 4% Paraformaldehyde-fixed and paraffin-embedded; Antigen retrieval: citrate buffer (0.01M, pH 6.0), Boiling bathing for 15min; Block endogenous peroxidase by 3% Hydrogen peroxide for 30min; Blocking buffer (normal goat serum,C-0005) at 37°C for 20 min; Incubation: Anti-COX4 Polyclonal Antibody, Unconjugated(bs-10257R) 1:200, overnight at 4°C, followed by conjugation to the secondary antibody(SP-0023) and DAB(C-0010) staining

SELECTED CITATIONS

- **[IF=14.5]** Xudong Xing. et al. Functional annotation map of natural compounds in traditional Chinese medicines library: TCMs with myocardial protection as a case. ACTA PHARM SIN B. 2023 Jun;: WB ;Rat. 10.1016/j.apsb.2023.06.002

- **[IF=5.48]** Wu, Bin, et al. "Succinate-induced neuronal mitochondrial fission and hexokinase II malfunction in ischemic stroke: Therapeutical effects of kaempferol." Biochimica et Biophysica Acta (BBA)-Molecular Basis of Disease (2017). WB ;="Mouse". 28634116
- **[IF=3.83]** Kouam et al. Induction of Mkp-1 and Nuclear Translocation of Nrf2 by Limonoids from Khaya grandifoliola C.DC Protect L-02 Hepatocytes against Acetaminophen-Induced Hepatotoxicity. (2017) Front.Pharmacol. 8:653 WB ;Human. 28974930
- **[IF=4.427]** Wang Y et al.Fine particulate matter induces mitochondrial dysfunction and oxidative stress in human SH-SY5Y cells.(2018) Chemosphere;218:577-588. WB ;. 30502696
- **[IF=2.639]** Yue Wang # et al. Mitophagy Induced by Mitochondrial Function Damage in Chicken Kidney Exposed to Cr(VI). Biol Trace Elem Res. 2021 Feb;199(2):703-711. WB ;Chicken. 32440992