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Rabbit Anti-COX4 antibody

SL10257R

Product Name:	COX4
Chinese Name:	细胞色素c氧化酶IV亚型1抗体
Alias:	COX-IV; COX 4; COX 4I1; COX 4I2; COXIV Isoform 2; COX IV 1; COX IV-1; COX IV; COX4 2; COX4; COX4B; COX4I1; COX4I2; COX4L2; COXIV 2; COXIV; Cytochrome c oxidase polypeptide IV; Cytochrome c oxidase subunit 4 isoform 1 mitochondrial; Cytochrome C Oxidase Subunit IV; Cytochrome c oxidase subunit IV isoform 1; Cytochrome c oxidase subunit IV isoform 2 (lung); dJ857M17.2; MGC72016; COX IV-1; Cox4a Cytochrome c oxidase polypeptide IV; COX41_HUMAN; COX4I1.
文献引用 PubMed :	**Specific References(3)**|SL10257R has been referenced in 3 publications. **[IF=2.10]**Wang, Da-Ting, et al. "Artemisinin mimics calorie restriction to trigger mitochondrial biogenesis and compromise telomere shortening in mice." PeerJ 3 (2015): e822.**WB;Mouse**. PubMed:25780774 **[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**. PubMed:28634116 **[IF=1.69]**Gao, Jinhang, et al. "De-methylation of displacement loop of mitochondrial DNA is associated with increased mitochondrial copy number and nicotinamide adenine dinucleotide subunit 2 expression in colorectal cancer." Molecular medicine reports 12.5 (2015): 7033-7038.**WB;Human**. PubMed:26323487
Organism Species:	Rabbit

Clonality:	Polyclonal
React Species:	Human,Mouse,Rat,Dog,Pig,Cow,Horse,
Applications:	WB=1:500-2000ELISA=1:500-1000IHC-P=1:400-800IHC-F=1:400-800ICC=1:100-500IF=1:100-500（Paraffin sections need antigen repair） not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Molecular weight:	17kDa
Cellular localization:	cytoplasmicThe cell membrane
Form:	Lyophilized or Liquid
Concentration:	1mg/ml
immunogen:	KLH conjugated synthetic peptide derived from human COX4:51-169/169
Lsotype:	IgG
Purification:	affinity purified by Protein A
Storage Buffer:	0.01M TBS(pH7.4) with 1% BSA, 0.03% Proclin300 and 50% Glycerol.
Storage:	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. The lyophilized antibody is stable at room temperature for at least one month and for greater than a year when kept at -20°C. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.
PubMed:	PubMed
Product Detail:	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] **Function:** This protein is one of the nuclear-coded polypeptide chains of cytochrome c oxidase, the terminal oxidase in mitochondrial electron transport. **Subcellular Location:** Mitochondrion inner membrane. **Post-translational modifications:** Ubiquitous. **Similarity:** Belongs to the cytochrome c oxidase IV family. **SWISS:** P13073

Gene ID:
1327

Database links:

Entrez Gene: 1327Human

Entrez Gene: 12857Mouse

Entrez Gene: 29445Rat

Entrez Gene: 281090Cow

Omim: 123864Human

SwissProt: P00423Cow

SwissProt: Q3SZS0Cow

SwissProt: P13073Human

SwissProt: P19783Mouse

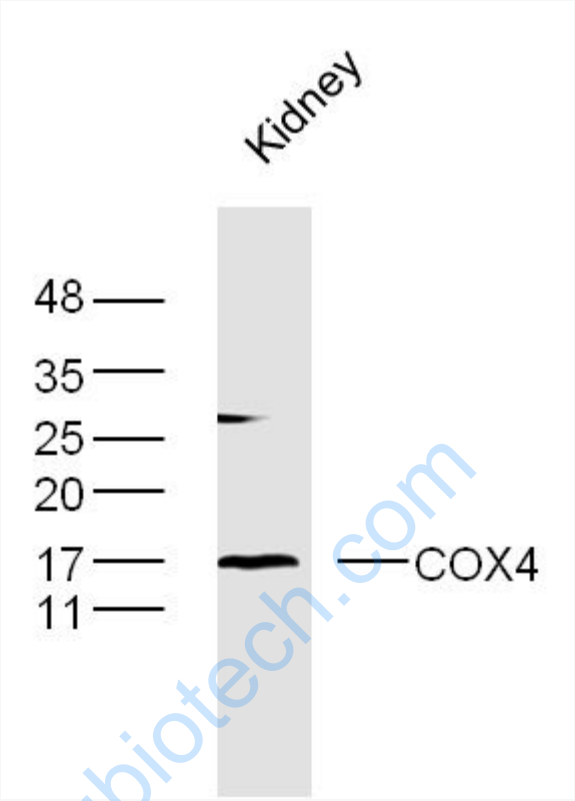
SwissProt: P10888Rat

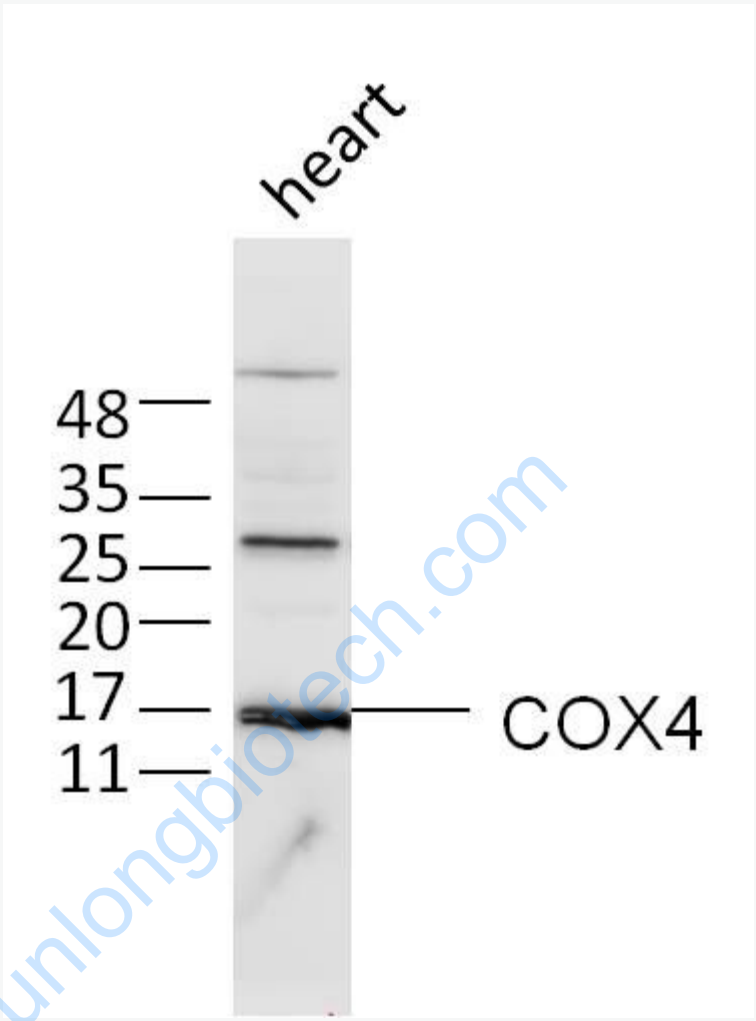
Unigene: 433419Human

Unigene: 386758Mouse

Unigene: 2528Rat

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

Picture:	 Sample: kidney (Mouse) Lysate at 40 ug Primary: Anti-COX4 (SL10257R) at 1/300 dilution Secondary: HRP conjugated Goat-Anti-rabbit IgG(SL10257R) at 1/5000 dilution Predicted band size: 17 kD Observed band size: 17 kD



Sample:

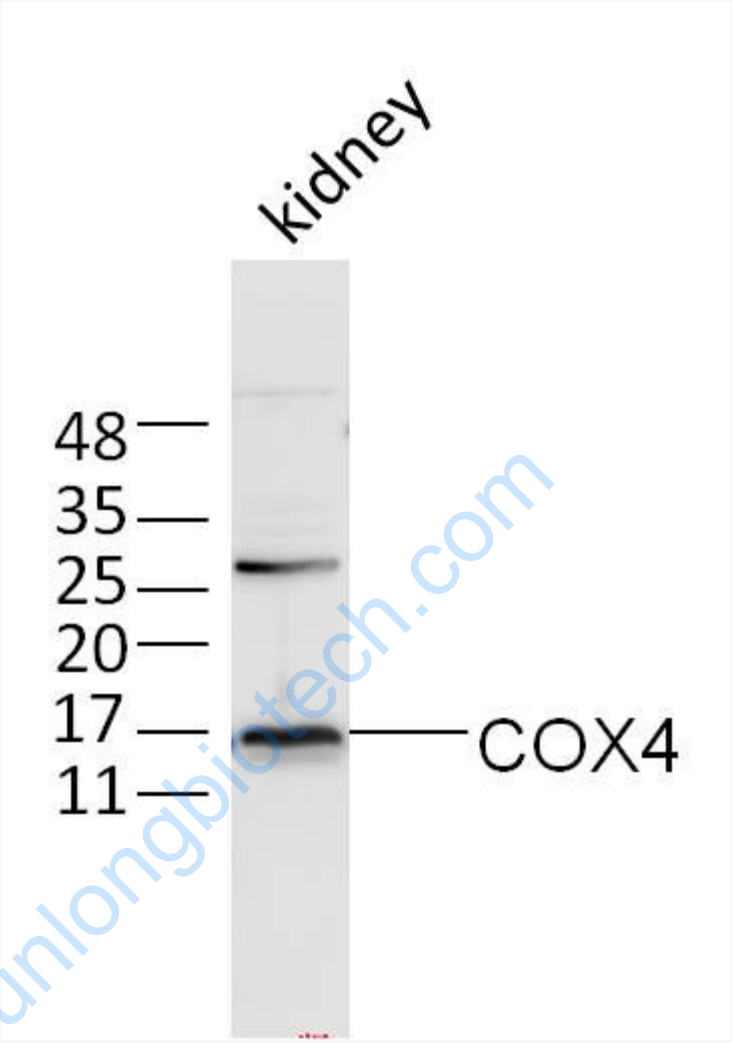
heart (Mouse) Lysate at 40 ug

Primary: Anti-COX4 (Bs-10257R) at 1/300 dilution

Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution

Predicted band size: 17 kD

Observed band size: 17 kD



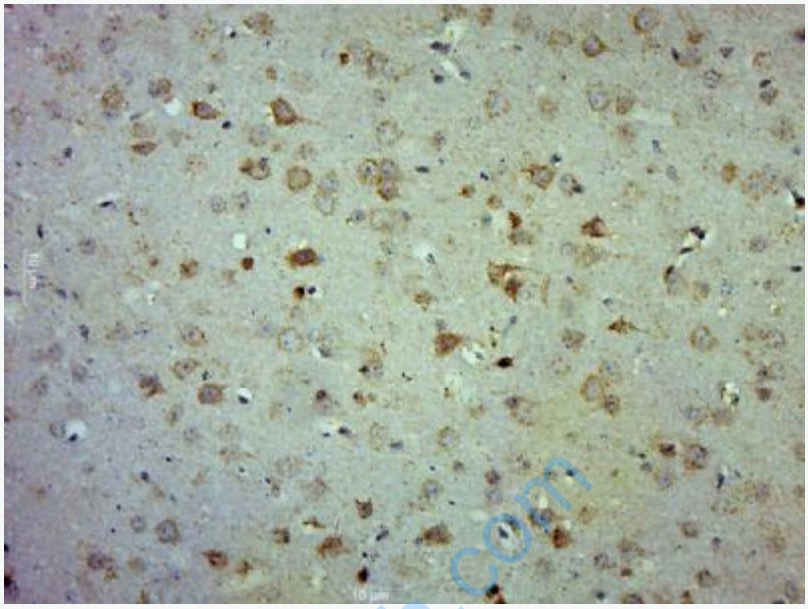
Sample: kidney (Mouse) Lysate at 40 ug

Primary: Anti-COX4 (SL10257R) at 1/300 dilution

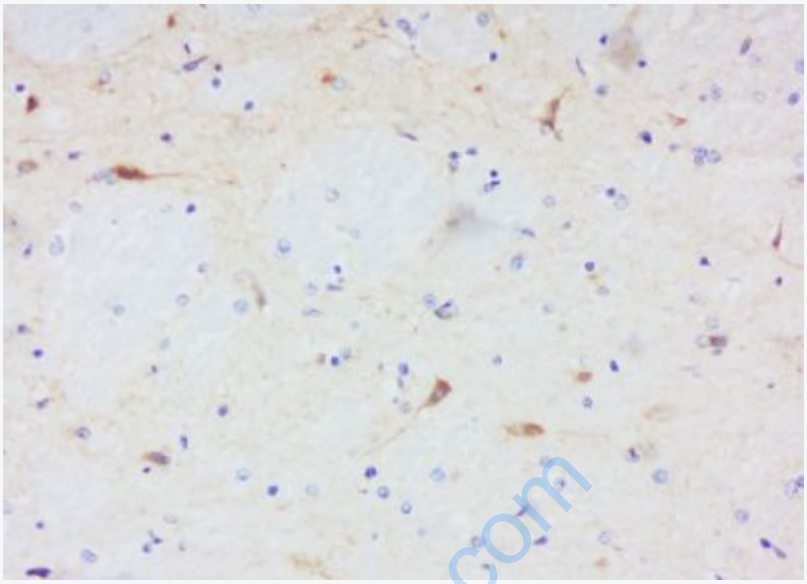
Secondary: HRP conjugated Goat-Anti-rabbit IgG(SL10257R) at 1/5000 dilution

Predicted band size: 17 kD

Observed band size: 17 kD

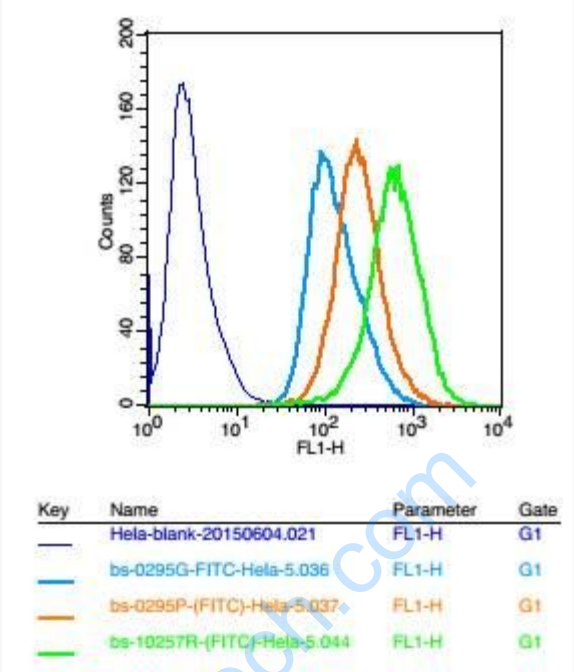


Paraformaldehyde-fixed, paraffin embedded (Mouse brain); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (COX4) Polyclonal Antibody, Unconjugated (SL10257R) 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℃ for 20 min;

Incubation: Anti-COX4 Polyclonal Antibody, Unconjugated(SL10257R) 1:200, overnight at 4°C, followed by conjugation to the secondary antibody(SP-0023) and DAB(C-0010) staining



Positive control: Hela cells

Concebtration: 5μg/10^6 cells

Incubation conditions: Avoid light , 30 minutes on the ice.