



Rabbit Anti-COX4 antibody

SL1533R

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.
Organism Species:	Rabbit
Clonality:	Polyclonal
React Species:	Human,Mouse,Rat,Cow,
Applications:	WB=1:500-2000ELISA=1:500-1000IHC-P=1:400-800IHC-F=1:400-800IF=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 COX IV-1:101-169/169
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.

Tissue Specificity:

Ubiquitous.

Similarity:

Belongs to the cytochrome c oxidase IV family.

SWISS:

P13073

Gene ID:

1327

Database links:

[Entrez Gene: 1327](#)Human

[Entrez Gene: 12857](#)Mouse

[Entrez Gene: 29445](#)Rat

[Entrez Gene: 281090](#)Cow

[Omim: 123864](#)Human

[SwissProt: P00423](#)Cow

[SwissProt: Q3SZS0](#)Cow

[SwissProt: P13073](#)Human

[SwissProt: P19783](#)Mouse

[SwissProt: P10888](#)Rat

[Unigene: 433419](#)Human

[Unigene: 386758](#)Mouse

[Unigene: 2528](#)Rat

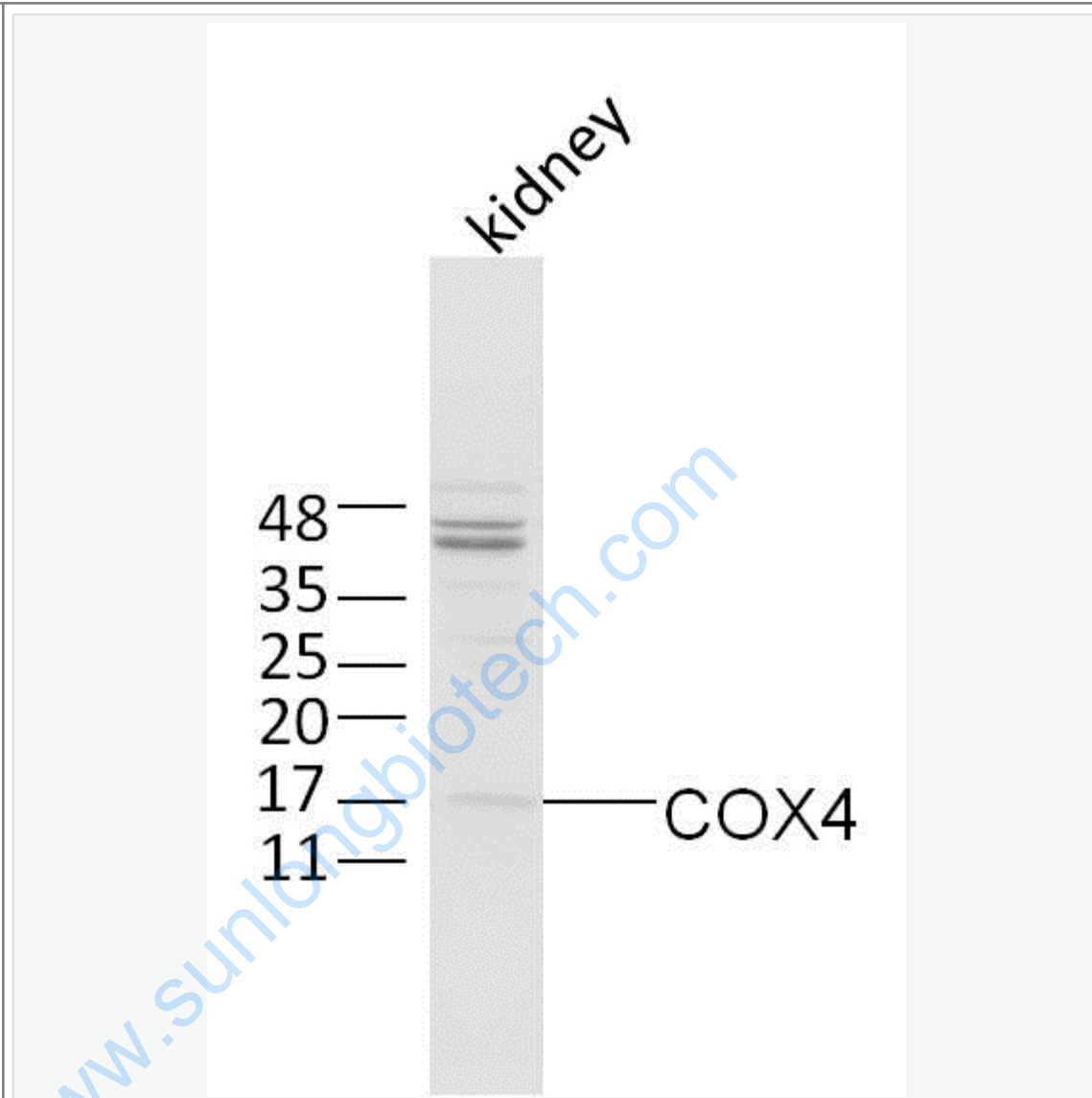
Important Note:

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

细胞色素c氧化酶4亚型1抗体;(细胞色素c氧化酶IV亚型1)是一种存在Mitochondrion上的大型Transmembrane protein复合物。由于细胞色素氧化酶是呼吸电子传递链的第四个中心酶复合物,因此又被称为复合物IV。

www.sunlongbiotech.com

Picture:



Sample:

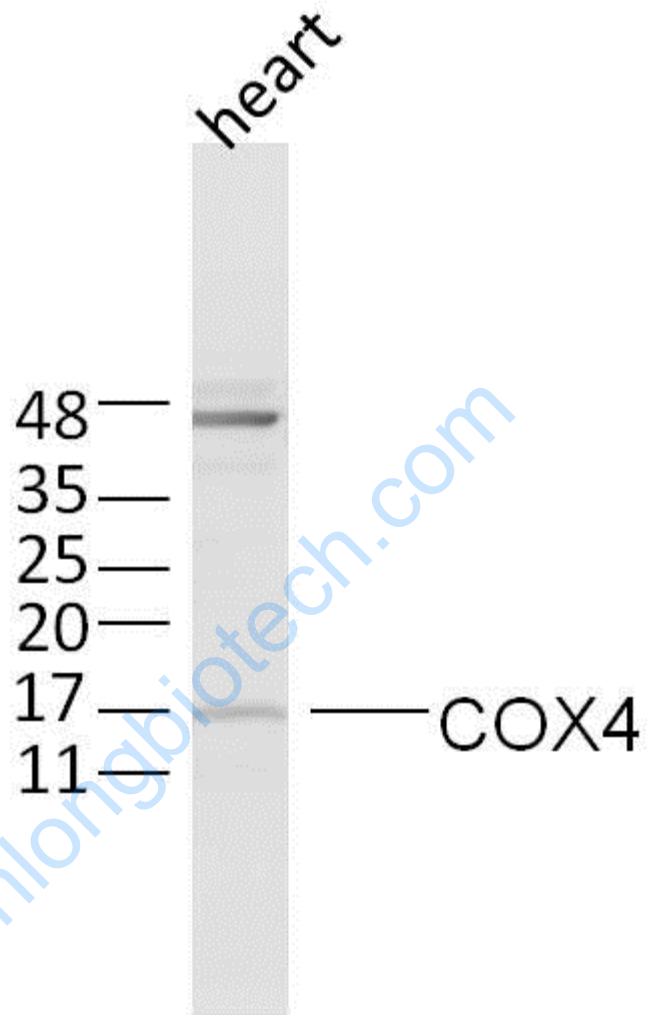
kidney (Mouse) Lysate at 40 ug

Primary: Anti-COX4 (Bs-1533R) 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:

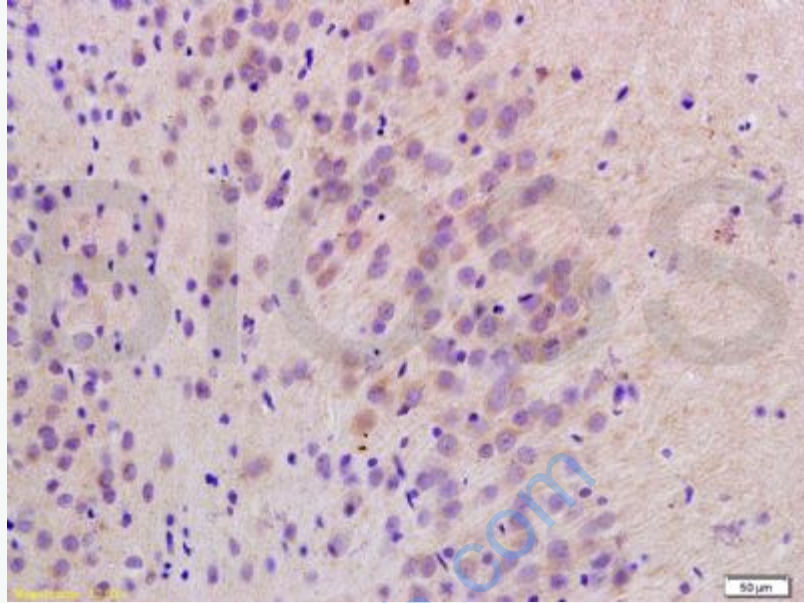
heart (Mouse) Lysate at 40 ug

Primary: Anti-COX4 (Bs-1533R) at 1/300 dilution

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

Predicted band size: 17 kD

Observed band size: 17 kD



Tissue/cell: mouse 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/COX IV-1 Polyclonal Antibody, Unconjugated(SL1533R) 1:200, overnight at 4°C, followed by conjugation to the secondary antibody(SP-0023) and DAB(C-0010) staining



Positive control: Hela cells

Concentration: $5\mu\text{g}/10^6$ cells

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