SunLong Biotech Co.,LTD
Tel: 0086-571-56623320 Fax:0086-571-56623318
E-mail:sales@sunlongbiotech.com
www.sunlongbiotech.com

[Primary Antibody]

Rabbit Anti-COX4I1 antibody

Catalog Number: SL1533R

FOR RESEARCH USE ONLY

[DATASHEET]

Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Target:	COX4I1
Immunogen:	KLH conjugated synthetic peptide derived from human COX4I1: 101-169/169
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℃. Store at -20 °C for one year. Avoid repeated freeze/thaw cycles.
Applications:	WB=1:500-2000 IHC-P=1:100-500 IHC-F=1:100-500 IF=1:100-500 （Paraffin sections need antigen repair） not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Reactivity:	Human, Mouse, (predicted: Rat, Cow)
Predicted MW.:	17kDa
Subcellular Location:	cytoplasmic The cell membrane Mitochondrion
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]

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

SunLong Biotech Co.,LTD
Tel: 0086-571-56623320 Fax:0086-571-56623318
E-mail:sales@sunlongbiotech.com
www.sunlongbiotech.com

	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. **Database links:** **Entrez Gene:** 1327 Human **Entrez Gene:** 12857 Mouse **Entrez Gene:** 29445 Rat **SwissProt:** P13073 Human **SwissProt:** P19783 Mouse **SwissProt:** P10888 Rat Cytochrome c oxidase subunit 4 isoform 1 antibody; (Cytochrome c oxidase subunit IV isoform 1) is a large transmembrane protein complex located in the mitochondrion. Because cytochrome oxidase is the fourth central enzyme complex of the respiratory electron transport chain, it is also known as complex IV.

[VALIDATION IMAGES]

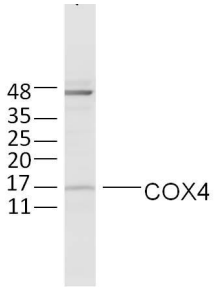


Figure 1. Sample: heart (Mouse) Lysate at 40 ug Primary: Anti-COX4 (SL1533R) at 1/300 dilution Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution Predicted band size: 17 kD Observed band size: 17 kD

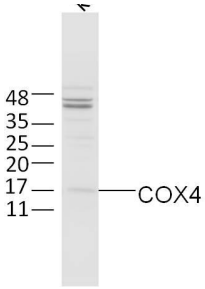


Figure 2. Sample: kidney (Mouse) Lysate at 40 ug Primary: Anti-COX4 (SL1533R) at 1/300 dilution Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution Predicted band size: 17 kD Observed band size: 17 kD

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

SunLong Biotech Co.,LTD

Tel: 0086-571-56623320 Fax:0086-571-56623318

E-mail:sales@sunlongbiotech.com

www.sunlongbiotech.com

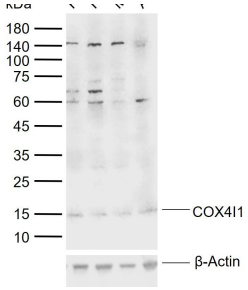


Figure 3. Sample: Lane 1: Human Raji cell lysates Lane 2: Human HepG2 cell lysates Lane 3: Human MCF-7 cell lysates Lane 4: Human A431 cell lysates Primary: Anti-COX4I1 (SL1533R) at 1/1000 dilution Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution Predicted band size: 17 kDa Observed band size: 17 kDa

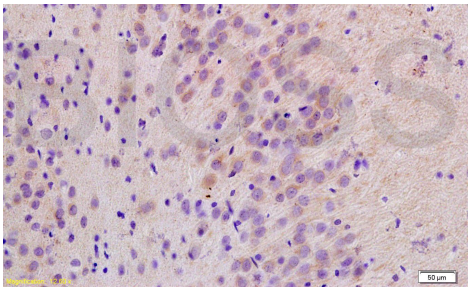


Figure 4. Tissue/cell: mouse brain tissue; 4% Paraformaldehyde-fixed and paraffin-embedded; Antigen retrieval: citrate buffer (0.01M, pH 6.0), Boiling bathing for 15min; Block endogenous peroxidase by 3% Hydrogen peroxide for 30min; Blocking buffer (normal goat serum,C-0005) at 37℃ for 20 min; Incubation: 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

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