

# **Product datasheet for TA375016**

## **COX5B Rabbit Polyclonal Antibody**

### **Product data:**

Product Type: Primary Antibodies

Applications: ICC/IF, IHC, IP, WB

Recommended Dilution: WB,1:500 - 1:2000

IHC,1:50 - 1:100 IF,1:50 - 1:100 IP,1:50 - 1:100

Reactivity: Human, Mouse, Rat

Modifications: Unmodified

Host: Rabbit Isotype: IgG

Clonality: Polyclonal

**Immunogen:** Recombinant fusion protein containing a sequence corresponding to amino acids 32-129 of

human COX5B (NP\_001853.2).

**Formulation:** Buffer: PBS with 0.02% sodium azide,50% glycerol,pH7.3.

**Concentration:** lot specific

**Purification:** Affinity purification

**Conjugation:** Unconjugated

**Store** at -20°C. Avoid freeze / thaw cycles.

**Stability:** Shelf life: one year from despatch.

**Predicted Protein Size:** 13kDa

**Gene Name:** cytochrome c oxidase subunit 5B

Database Link: Entrez Gene 1329 Human

P10606



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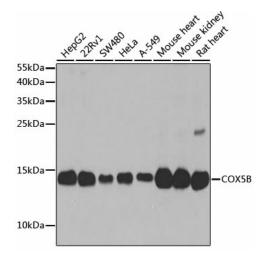


#### Background:

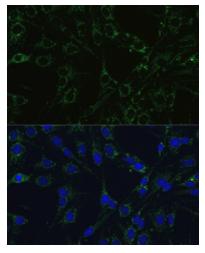
Cytochrome C oxidase (COX) is the terminal enzyme of the mitochondrial respiratory chain. It is a multi-subunit enzyme complex that couples the transfer of electrons from cytochrome c to molecular oxygen and contributes to a proton electrochemical gradient across the inner mitochondrial membrane. The 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 Vb of the human mitochondrial respiratory chain enzyme.

Synonyms: COXVB

# **Product images:**

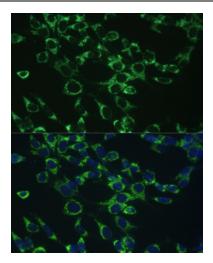


Western blot analysis of extracts of various cell lines, using COX5B antibody (TA375016) at 1:1000 dilution. |Secondary antibody: HRP Goat Anti-Rabbit IgG (H+L) at 1:10000 dilution. |Lysates/proteins: 25ug per lane. |Blocking buffer: 3% nonfat dry milk in TBST. |Detection: ECL Enhanced Kit. |Exposure time: 30s.

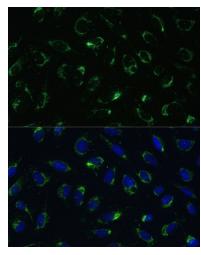


Immunofluorescence analysis of C6 cells using COX5B antibody (TA375016) at dilution of 1:100. Blue: DAPI for nuclear staining.

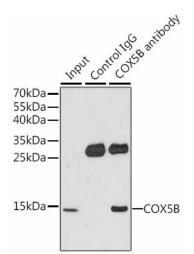




Immunofluorescence analysis of NIH-3T3 cells using COX5B antibody (TA375016) at dilution of 1:100. Blue: DAPI for nuclear staining.



Immunofluorescence analysis of U-2 OS cells using COX5B antibody (TA375016) at dilution of 1:100. Blue: DAPI for nuclear staining.



Immunoprecipitation analysis of 200ug extracts of HepG2 cells, using 3 ug COX5B antibody (TA375016). Western blot was performed from the immunoprecipitate using COX5B antibody (TA375016) at a dilition of 1:1000.