

Product Name: KD-Validated COX5B Recombinant Rabbit Monoclonal Antibody**Catalog #: KVA00398**

For research use only.

Summary

Description	KO&KD-Validated antibody
Host	Rabbit
Application	WB,FCM,ICC
Reactivity	Human,Mouse,Rat
Conjugation	Unconjugated
Modification	Unmodified
Isotype	Rabbit IgG
Clonality	Rabbit mAb
Form	Liquid
Storage	Aliquot and store at -20°C (valid for 12 months). Avoid freeze/thaw cycles.
Shipping	Ice bags
Buffer	Supplied in PBS (pH 7.4) containing 50% glycerol, and 0.02% sodium azide.
Purification	Affinity purification

Application

Dilution Ratio	WB 1:1,000-1:5,000; FC 1:100-1:1,000; ICC 1:100-1:1,000
Molecular Weight	Calculated MW: 13.7kDa

Antigen Information

Gene Name	COX5B
Alternative Names	COX5B; Cytochrome C Oxidase Subunit 5B; Cytochrome C Oxidase Subunit 5B, Mitochondrial; Cytochrome C Oxidase Subunit Vb; Cytochrome C Oxidase Polypeptide VB, Mitochondrial; Epididymis Secretory Sperm Binding Protein; Cytochrome C Oxidase Polypeptide Vb; COXVB
Gene ID	1329.0
SwissProt ID	P10606
Immunogen	A synthesized peptide derived from human COX5B

Background

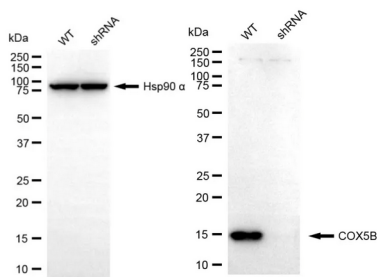
Cytochrome C oxidase (COX) is the terminal enzyme of the mitochondrial respiratory chain. It is a multi-subunit enzyme

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. [provided by RefSeq, Jul 2008]

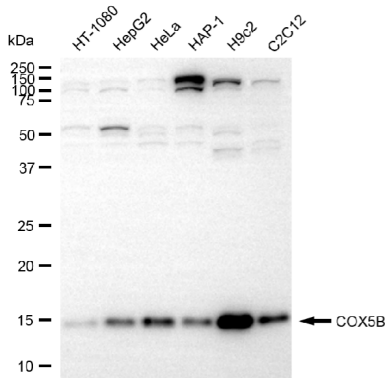
Research Area

Tags & Cell Markers, Signal Transduction, Cancer, Metabolism

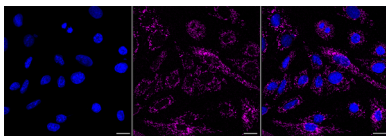
Image Data



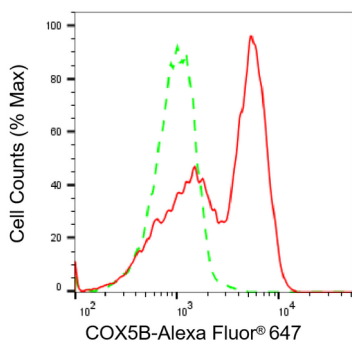
Western blotting analysis using COX5B antibody (KVA00398). COX5B expression in wild-type (WT) and COX5B shRNA knockdown (KD) HeLa cells with 20 µg of total cell lysates. Hsp90 α serves as a loading control. The blot was incubated with COX5B antibody (KVA00398, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody (APS0635, 1:10,000) respectively.



Western blotting analysis using COX5B antibody (KVA00398). Total cell lysates (30 µg) from various cell lines were loaded and separated by SDS-PAGE. The blot was incubated with COX5B antibody (KVA00398, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody (APS0635, 1:10,000) respectively.



Immunocytochemical staining of H9c2 cells with COX5B antibody (KVA00398, 1:1,000). Nuclei were stained blue with DAPI; COX5B was stained magenta with Alexa Fluor® 647. Images were taken using Leica stellaris 5. Protein abundance based on laser intensity and smart gain: Medium. Scale bar, 20 µm.



Flow cytometric analysis of COX5B expression in H9c2 cells using COX5B antibody (KVA00398, 1:2,000). Green, isotype control; red, COX5B.

