
Product Name: KD-Validated COX6C Mouse Monoclonal Antibody**Catalog #: KVA00281**

For research use only.

Summary

Description	KO&KD-Validated antibody
Host	Mouse
Application	WB,FCM,ICC
Reactivity	Human
Conjugation	Unconjugated
Modification	Unmodified
Isotype	Mouse IgG1
Clonality	Mouse 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 1:400-1:2,000; FC 1:200-1:2,000; ICC 1:100-1:1,000
Molecular Weight	Calculated MW: 8.8kDa

Antigen Information

Gene Name	COX6C COX6C; Cytochrome C Oxidase Subunit 6C; Cytochrome C Oxidase Polypeptide VIc;
Alternative Names	Cytochrome C Oxidase Subunit VIc Preprotein; Epididymis Secretory Sperm Binding Protein; Cytochrome C Oxidase Subunit VIc
Gene ID	1345.0
SwissProt ID	P09669
Immunogen	Recombinant protein of human COX6C

Background

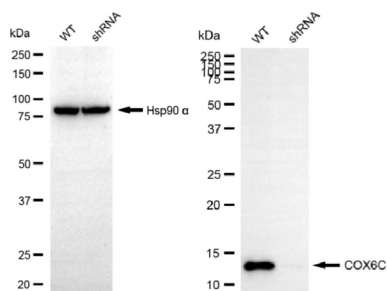
Cytochrome c oxidase, the terminal enzyme of the mitochondrial respiratory chain, catalyzes the electron transfer from reduced cytochrome c to oxygen. It is a heteromeric complex consisting of 3 catalytic subunits encoded by mitochondrial genes and

multiple structural subunits encoded by nuclear genes. The mitochondrially-encoded subunits function in electron transfer, and the nuclear-encoded subunits may be involved in the regulation and assembly of the complex. This nuclear gene encodes subunit VIc, which has 77% amino acid sequence identity with mouse subunit VIc. This gene is up-regulated in prostate cancer cells. A pseudogene has been found on chromosomes 16p12. [provided by RefSeq, Jul 2010]

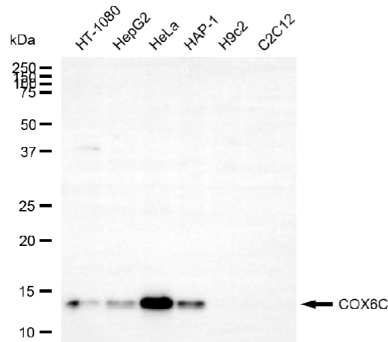
Research Area

Tags & Cell Markers, Signal Transduction, Cancer, Metabolism

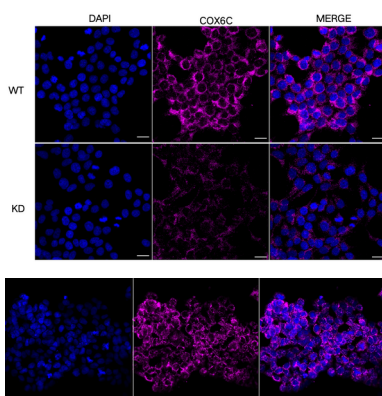
Image Data



Western blotting analysis using COX6C antibody (KVA00281). COX6C expression in wild-type (WT) and COX6C shRNA knockdown (KD) HeLa cells with 30 µg of total cell lysates. Hsp90 α serves as a loading control. The blot was incubated with COX6C antibody (KVA00281, 1:2,000) and HRP-conjugated goat anti-mouse secondary antibody (APS0631, 1:10,000) respectively.

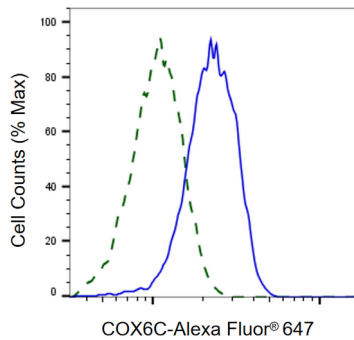


Western blotting analysis using COX6C antibody (KVA00281). Total cell lysates (30 µg) from various cell lines were loaded and separated by SDS-PAGE. The blot was incubated with COX6C antibody (KVA00281, 1:2,000) and HRP-conjugated goat anti-mouse secondary antibody (APS0631, 1:10,000) respectively.

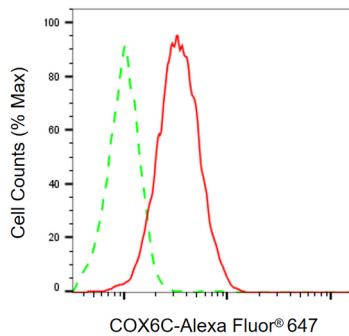


Immunocytochemical staining of HeLa cells using COX6C antibody (KVA00281, 1:1,000), Top panel: wild-type (WT); Bottom panel: COX6C shRNA knockdown (KD). Nuclei were stained blue with DAPI; COX6C was stained magenta with Alexa Fluor® 647. Scale bar, 20 µm.

Immunocytochemical staining of HAP-1 cells with COX6C antibody (KVA00281, 1:1,000). Nuclei were stained blue with DAPI; COX6C 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.



Validation of COX6C knockdown using flow cytometry. Wild-type(WT, Blue) and knockdown(KD, Green) HeLa cells were stained with COX6C antibody (KVA00281, 1:2,000) and analyzed using BD flow cytometer.



Flow cytometric analysis of COX6C expression in HAP-1 cells using COX6C antibody (KVA00281, 1:2,000). Green, isotype control; red, COX6C.