

[KO Validated] COX5A Rabbit pAb

Catalog No.: A24500 **KO Validated**

Basic Information

Observed MW

15kDa

Calculated MW

16kDa

Category

Primary antibody

Applications

ELISA, WB, IHC-P

Cross-Reactivity

Human, Mouse, Rat

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 of 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 Va of the human mitochondrial respiratory chain enzyme. A pseudogene COX5AP1 has been found in chromosome 14q22.

Recommended Dilutions

WB	1:1000 - 1:5000
IHC-P	1:50 - 1:200

Immunogen Information

Gene ID

9377

Swiss Prot

P20674

Immunogen

Recombinant fusion protein containing a sequence corresponding to amino acids 1-150 of human COX5A (NP_004246.2).

Synonyms

COX5A; COX; COX-VA; VA; cytochrome c oxidase subunit 5A; 5A

Contact

 | 400-999-6126 | cn.market@abclonal.com.cn | www.abclonal.com.cn

Product Information

Source

Rabbit

Isotype

IgG

Purification

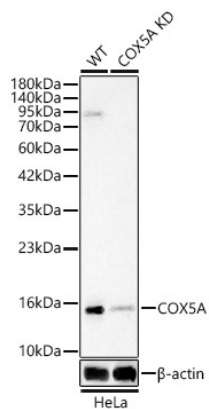
Affinity purification

Storage

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

Buffer: PBS with 0.05% proclin300, 50% glycerol, pH7.3.

Validation Data



Western blot analysis of lysates from wild type (WT) and COX5A knockdown (KD) HeLa(KD) cells, using [KO Validated] COX5A Rabbit pAb (A24500) at 1:2000 dilution.

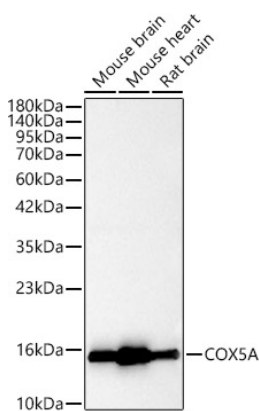
Secondary antibody: HRP Goat Anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution.

Lysates/proteins: 25ug per lane.

Blocking buffer: 3% nonfat dry milk in TBST.

Detection: ECL Basic Kit (RM00020).

Exposure time: 60s.



Western blot analysis of various lysates, using [KO Validated] COX5A Rabbit pAb (A24500) at 1:2000 dilution.

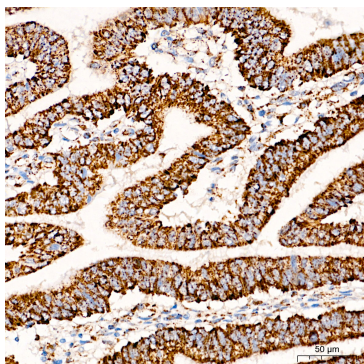
Secondary antibody: HRP Goat Anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution.

Lysates/proteins: 25ug per lane.

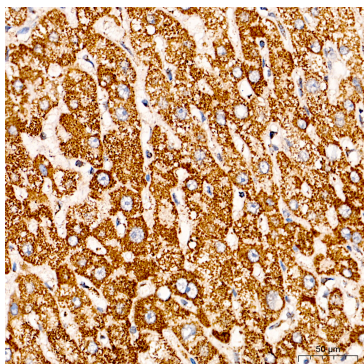
Blocking buffer: 3% nonfat dry milk in TBST.

Detection: ECL Basic Kit (RM00020).

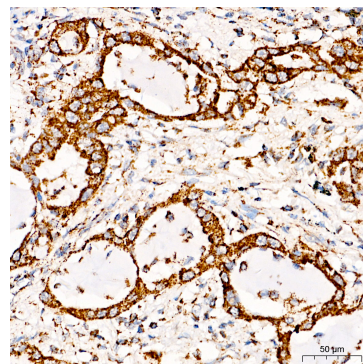
Exposure time: 60s.



Immunohistochemistry analysis of COX5A in paraffin-embedded human colon carcinoma tissue using [KO Validated] COX5A Rabbit pAb (A24500) at a dilution of 1:100 (40x lens). High pressure antigen retrieval was performed with 0.01 M citrate buffer (pH 6.0) prior to IHC staining.

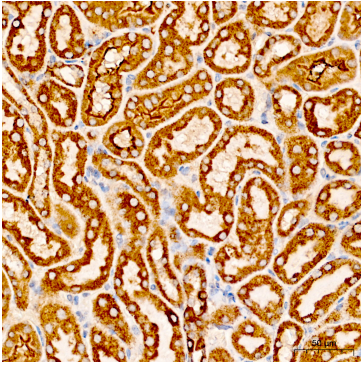


Immunohistochemistry analysis of COX5A in paraffin-embedded human liver cancer tissue using [KO Validated] COX5A Rabbit pAb (A24500) at a dilution of 1:100 (40x lens). High pressure antigen retrieval was performed with 0.01 M citrate buffer (pH 6.0) prior to IHC staining.

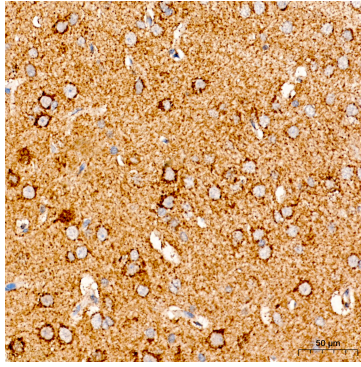


Immunohistochemistry analysis of COX5A in paraffin-embedded human lung cancer tissue using [KO Validated] COX5A Rabbit pAb (A24500) at a dilution of 1:100 (40x lens). High pressure antigen retrieval was performed with 0.01 M citrate buffer (pH 6.0) prior to IHC staining.

Validation Data



Immunohistochemistry analysis of COX5A in paraffin-embedded mouse kidney tissue using [KO Validated] COX5A Rabbit pAb (A24500) at a dilution of 1:100 (40x lens). High pressure antigen retrieval was performed with 0.01 M citrate buffer (pH 6.0) prior to IHC staining.



Immunohistochemistry analysis of COX5A in paraffin-embedded rat brain tissue using [KO Validated] COX5A Rabbit pAb (A24500) at a dilution of 1:100 (40x lens). High pressure antigen retrieval was performed with 0.01 M citrate buffer (pH 6.0) prior to IHC staining.