

# Human COX5A antibody

Catalog Number: ATGA0382

## PRODUCT INFORMATION

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**Catalog number**

ATGA0382

**Clone No.**

AT7A6

**Product type**

Monoclonal Antibody

**UnitProt No.**

P20674

**NCBI Accession No.**

NP\_004246

**Alternative Names**

cytochrome c oxidase subunit Va, cytochrome c oxidase subunit Va, COX, COX-VA, VA

## PRODUCT SPECIFICATION

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**Antibody Host**

Mouse

**Reacts With**

Human

**Concentration**

1mg/ml (determined by BCA assay)

**Formulation**

Liquid in. Phosphate-Buffered Saline (pH 7.4) with 0.02% Sodium Azide, 10% glycerol

**Immunogen**

Recombinant human COX5A (42-150aa) purified from E. coli

**Isotype**

IgG1 kappa

**Purification Note**

By protein-A affinity chromatography

**Application**

ELISA, WB, ICC/IF

**Usage**

The antibody has been tested by ELISA, Western blot analysis, ICC/IF and Flow cytometry to assure specificity and reactivity. Since application varies, however, each investigation should be titrated by the reagent to obtain optimal results.

# Human COX5A antibody

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## Storage

Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

## BACKGROUND

### Description

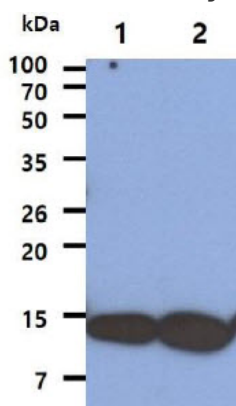
COX5A, also known as COX, COX-VA and VA, belongs to the cytochrome c oxidase subunit 5A family. Cytochrome c oxidase (COX), the terminal component of the mitochondrial respiratory chain, catalyzes the electron transfer from reduced cytochrome c to oxygen. This component is a heteromeric complex consisting 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 function in the regulation and assembly of the complex. COX5A is the heme A-containing chain of cytochrome c oxidase, the terminal oxidase in mitochondrial electron transport.

### General References

Lenka N., et al. (1998) *Prog Nucleic Acid Res Mol Biol.* 61: 309-344.  
Schmidt TR., et al. (2002) *Gene.* 286: 13-19.

## DATA

### Western blot analysis (WB)

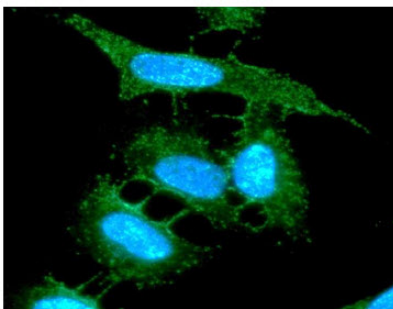


The Cell lysates (40ug) were resolved by SDS-PAGE, transferred to PVDF membrane and probed with anti-human COX5A antibody (1:1000). Proteins were visualized using a goat anti-mouse secondary antibody conjugated to HRP and an ECL detection system.

Lane 1. : A431 cell lysate

Lane 2. : HeLa cell lysate

### Immunocytochemistry/Immunofluorescence (ICC/IF)



ICC/IF analysis of COX5A in HeLa cells line, stained with DAPI (Blue) for nucleus staining and monoclonal anti-human COX5A antibody (1:100) with goat anti-mouse IgG-Alexa fluor 488 conjugate (Green).