

## COX5B Antibody (monoclonal) (M03)

Mouse monoclonal antibody raised against a partial recombinant COX5B. Catalog # AT1599a

## **Specification**

# COX5B Antibody (monoclonal) (M03) - Product Information

**Application** WB **Primary Accession** P10606 Other Accession NM 001862 Reactivity Human Host mouse Clonality **Monoclonal** Isotype IgG1 Kappa Calculated MW 13696

## COX5B Antibody (monoclonal) (M03) - Additional Information

#### **Gene ID 1329**

# **Other Names**

Cytochrome c oxidase subunit 5B, mitochondrial, Cytochrome c oxidase polypeptide Vb, COX5B

#### Target/Specificity

COX5B (NP\_001853, 37 a.a.  $\sim$  128 a.a) partial recombinant protein with GST tag. MW of the GST tag alone is 26 KDa.

# **Dilution**

WB~~1:500~1000

#### **Format**

Clear, colorless solution in phosphate buffered saline, pH 7.2.

## **Storage**

Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.

## **Precautions**

COX5B Antibody (monoclonal) (M03) is for research use only and not for use in diagnostic or therapeutic procedures.

# COX5B Antibody (monoclonal) (M03) - Protocols

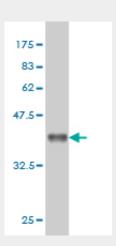
Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry

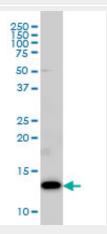


- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

# COX5B Antibody (monoclonal) (M03) - Images



Antibody Reactive Against Recombinant Protein.Western Blot detection against Immunogen (35.86 KDa).



COX5B monoclonal antibody (M03), clone 1E8 Western Blot analysis of COX5B expression in HepG2 ( (Cat # AT1599a )

# COX5B Antibody (monoclonal) (M03) - 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.

## COX5B Antibody (monoclonal) (M03) - References

Association of genetic variants with hemorrhagic stroke in Japanese individuals. Yoshida T, et al. Int J Mol Med, 2010 Apr. PMID 20198315. Assessment of a polymorphism of SDK1 with hypertension in





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Japanese Individuals. Oguri M, et al. Am J Hypertens, 2010 Jan. PMID 19851296. Involvement of cytochrome c oxidase subunits Va and Vb in the regulation of cancer cell metabolism by Bcl-2. Chen ZX, et al. Cell Death Differ, 2010 Mar. PMID 19834492. Large-scale mapping of human protein-protein interactions by mass spectrometry. Ewing RM, et al. Mol Syst Biol, 2007. PMID 17353931. The status, quality, and expansion of the NIH full-length cDNA project: the Mammalian Gene Collection (MGC). Gerhard DS, et al. Genome Res, 2004 Oct. PMID 15489334.