

**COX5B Antibody (monoclonal) (M03)**

Mouse monoclonal antibody raised against a partial recombinant COX5B.

Catalog # AT1599a

**Specification**

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

Application	WB
Primary Accession	<a href="#">P10606</a>
Other Accession	<a href="#">NM_001862</a>
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. ~ 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.

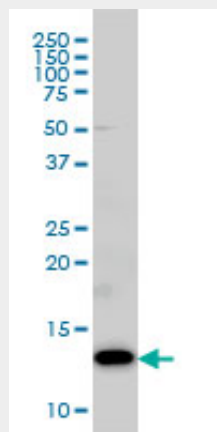
- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)

- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [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

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.