

COX17 Antibody (monoclonal) (M01)**Mouse monoclonal antibody raised against a partial recombinant COX17.****Catalog # AT1597a****Specification**

COX17 Antibody (monoclonal) (M01) - Product Information

| | |
|-------------------|---------------------------|
| Application | WB, IHC, E |
| Primary Accession | Q14061 |
| Other Accession | NM_005694 |
| Reactivity | Human |
| Host | mouse |
| Clonality | Monoclonal |
| Isotype | IgG2b Kappa |
| Calculated MW | 6915 |

COX17 Antibody (monoclonal) (M01) - Additional Information**Gene ID** 10063**Other Names**

Cytochrome c oxidase copper chaperone, COX17

Target/Specificity

COX17 (NP_005685, 1 a.a. ~ 63 a.a) partial recombinant protein with GST tag. MW of the GST tag alone is 26 KDa.

Dilution

WB~~1:500~1000

IHC~~1:100~500

E~~N/A

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

COX17 Antibody (monoclonal) (M01) is for research use only and not for use in diagnostic or therapeutic procedures.

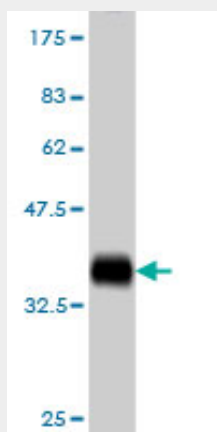
COX17 Antibody (monoclonal) (M01) - Protocols

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

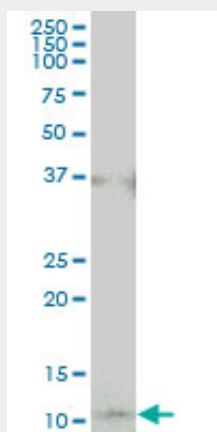
- [Western Blot](#)
- [Blocking Peptides](#)

- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

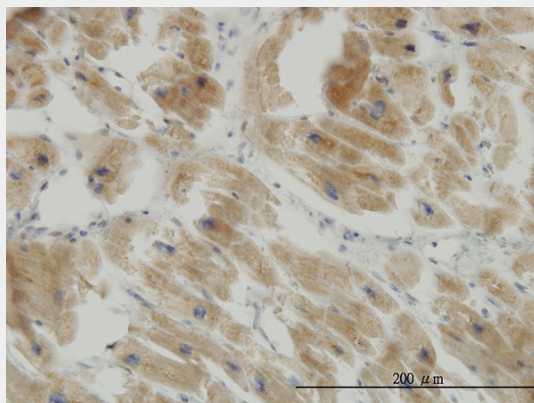
COX17 Antibody (monoclonal) (M01) - Images



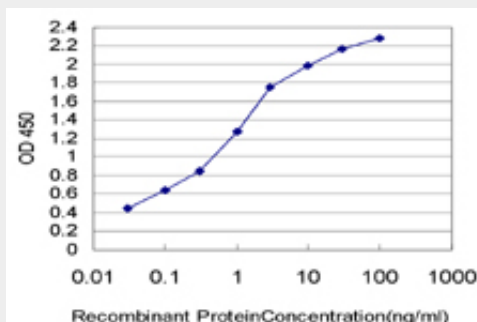
Antibody Reactive Against Recombinant Protein. Western Blot detection against Immunogen (32.67 kDa) .



COX17 monoclonal antibody (M01), clone 4G2. Western Blot analysis of COX17 expression in IMR-32.



Immunoperoxidase of monoclonal antibody to COX17 on formalin-fixed paraffin-embedded human heart. [antibody concentration 3 ug/ml]



Detection limit for recombinant GST tagged COX17 is approximately 0.03ng/ml as a capture antibody.

COX17 Antibody (monoclonal) (M01) - Background

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. This nuclear gene encodes a protein which is not a structural subunit, but may be involved in the recruitment of copper to mitochondria for incorporation into the COX apoenzyme. This protein shares 92% amino acid sequence identity with mouse and rat Cox17 proteins. This gene is no longer considered to be a candidate gene for COX deficiency. A pseudogene COX17P has been found on chromosome 13.

COX17 Antibody (monoclonal) (M01) - References

1. Dysregulation of intracellular copper homeostasis is common to transgenic mice expressing human mutant superoxide dismutase-1s regardless of their copper-binding abilities. Tokuda E, Okawa E, Watanabe S, Ono SI, Marklund SL. *Neurobiol Dis.* 2013 Jan 13. doi:pii: S0969-9961(13)00013-2. 10.1016/j.nbd.2013.01.001. [Epub ahead of print]