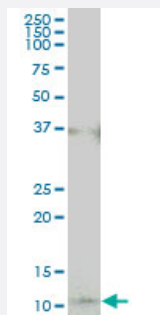


COX17 monoclonal antibody (M01), clone 4G2

Catalog # H00010063-M01

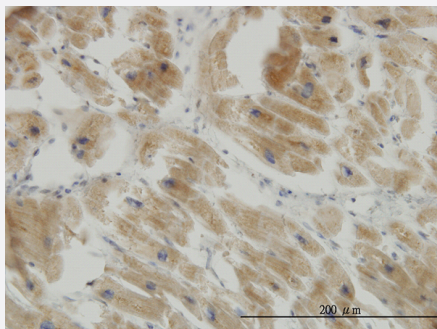
Size 100 ug

Applications



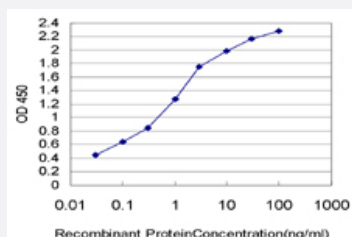
Western Blot (Cell lysate)

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



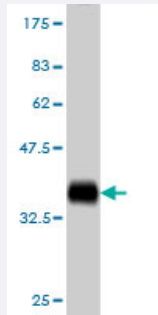
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)

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



Sandwich ELISA (Recombinant protein)

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



Western Blot detection against Immunogen (32.67 KDa) .

Specification

Product Description	Mouse monoclonal antibody raised against a partial recombinant COX17.
Immunogen	COX17 (NP_005685, 1 a.a. ~ 63 a.a) partial recombinant protein with GST tag. MW of the GST tag alone is 26 KDa.
Sequence	MPGLVDSNPAPPESQEKKPLKPCCACPETKKARDACIIEKGEEHCGLHIEAHKECMRALGFKI
Host	Mouse
Reactivity	Human
Interspecies Antigen Sequence	Mouse (92); Rat (92)
Isotype	IgG2b Kappa
Quality Control Testing	Antibody Reactive Against Recombinant Protein. Western Blot detection against Immunogen (32.67 KDa) .
Storage Buffer	In 1x PBS, pH 7.4
Storage Instruction	Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.

Applications

- Western Blot (Cell lysate)

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

[Protocol Download](#)

- Western Blot (Recombinant protein)

[Protocol Download](#)

- Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)

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- Sandwich ELISA (Recombinant protein)

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[Protocol Download](#)

- ELISA

Gene Info — COX17

Entrez GeneID [10063](#)

GeneBank Accession# [NM_005694](#)

Protein Accession# [NP_005685](#)

Gene Name COX17

Gene Alias MGC104397, MGC117386

Gene Description COX17 cytochrome c oxidase assembly homolog (S. cerevisiae)

Omim ID [604813](#)

Gene Ontology [Hyperlink](#)

Gene Summary 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. [provided by RefSeq]

Other Designations COX17 homolog, cytochrome c oxidase assembly protein|human homolog of yeast mitochondrial copper recruitment

Publication Reference

- [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.

Neurobiology of Disease 2013 Jan; 54:308.

Application: WB, Mouse, Lumbar spinal cords

Pathway

- [Metabolic pathways](#)
- [Oxidative phosphorylation](#)