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COX17 Antibody (monoclonal) (M01)

Mouse monoclonal antibody raised against a partial recombinant COX17.
Catalog # AT1597a

Product Information

Application	WB, IHC, E
Primary Accession	Q14061
Other Accession	NM_005694
Reactivity	Human
Host	mouse
Clonality	monoclonal
Isotype	IgG2b Kappa
Clone Names	4G2
Calculated MW	6915

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.

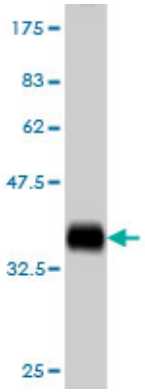
Background

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.

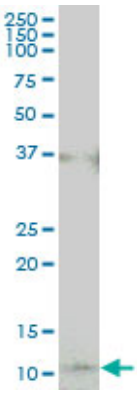
References

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]

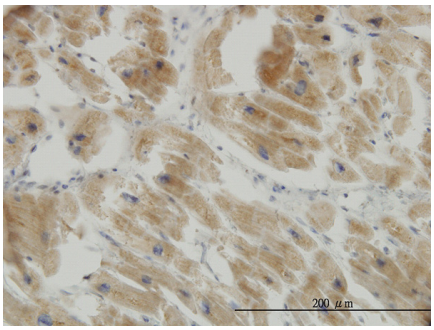
Images



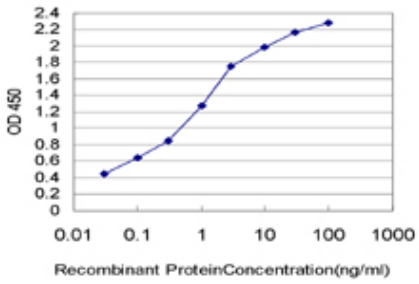
Antibody Reactive Against Recombinant Protein.Western Blot detection against Immunogen (32.67 KDa) .



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.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.