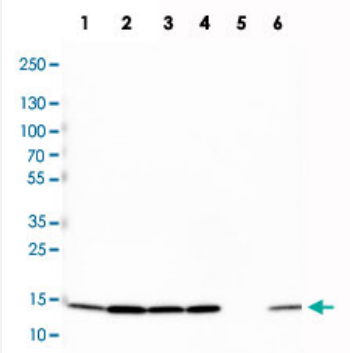
COX4I1 monoclonal antibody, clone CL3497

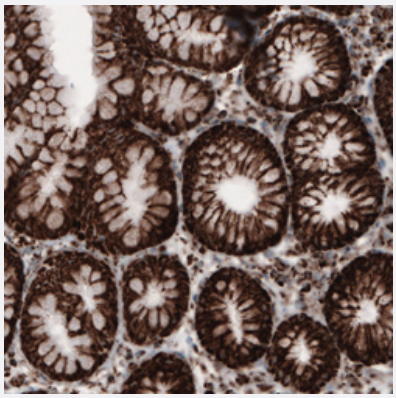
Catalog # MAB15804 Size 100 uL

Applications



Western Blot (Cell lysate)

Western Blot analysis of Lane 1: HeLa, Lane 2: HEK 293, Lane 3: A-431, Lane 4: HepG2, Lane 5: NIH-3T3 and Lane 6: NBT-II cell lysates with COX4I1 monoclonal antibody, clone CL3497 (Cat # MAB15804).



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

Immunohistochemical staining (Formalin-fixed paraffin-embedded sections) of human stomach with COX4I1 monoclonal antibody, clone CL3497 (Cat # MAB15804) shows strong cytoplasmic immunoreactivity in glandular epithelium cells.

Specification

Product Description	Mouse monoclonal antibody raised against partial recombinant human COX4I1.
Immunogen	Recombinant protein corresponding to human COX4I1.
Epitope	This antibody binds to an epitope located within the peptide sequence VVKSEDFSLP as determined by overlapping synthetic peptides.
Sequence	LATRVFSLVGKRAISTSVCVRAHESVVKSEDFSLPAYMDRRDHPLPEVAHVKHLSASQKALKEKEKASWSSLSMDEKVELYRIKFKESFAEMNRGSNEWKT
Host	Mouse

Reactivity	Human, Mouse, Rat
Form	Liquid
Purification	Protein A purification
Isotype	IgG1
Recommend Usage	Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) (1:5000-1:10000) Western Blot (1:500-1:1000) The optimal working dilution should be determined by the end user.
Storage Buffer	In PBS, pH 7.2 (40% glycerol, 0.02% sodium azide).
Storage Instruction	Store at 4°C. For long term storage store at -20°C. Aliquot to avoid repeated freezing and thawing.
Note	This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which shoul d be handled by trained staff only.

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Gene Info — COX4I1

Entrez GeneID	1327
Protein Accession#	P13073
Gene Name	COX4I1
Gene Alias	COX4, COXIV, MGC72016
Gene Description	cytochrome c oxidase subunit IV isoform 1
Omim ID	123864
Gene Ontology	Hyperlink

Gene Summary	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 IV isoform 1 of the human mitochondrial respiratory chain enzyme. It is located at the 3' of the NOC4 (neighbor of COX4) gene in a head-to-head orientation, and shares a promoter with it. [provided by RefSeq
Other Designations	-

Pathway

- Cardiac muscle contraction
- Metabolic pathways
- Oxidative phosphorylation