COX7A1 rabbit monoclonal antibody

Catalog # H00001346-K Size 100 ug x up to 3

Specification

Product Description	Rabbit monoclonal antibody raised against a human COX7A1 peptide using ARM Technology.
Immunogen	A synthetic peptide of human COX7A1 is used for rabbit immunization. Customer or Abnova will decide on the preferred peptide sequence.
Host	Rabbit
Library Construction	Non-fusion antibody library from rabbit spleen (ARM Technology).
Expression	Overexpression vector and transfection into 293H cell line.
Reactivity	Human
Purification	Protein A
Isotype	IgG
Quality Control Testing	Antibody reactive against human COX7A1 peptide by ELISA and mammalian transfected lysate by Western Blot.
Storage Buffer	In 1x PBS, pH 7.4
Storage Instruction	Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.
Deliverable	Up to three rabbit IgG clones of 100 ug each will be delivered to customer.
Note	1. Customer may provide cell or tissue lysate for antibody screening. 2. Rabbit monoclonal antibody generated by ARM technology is amenable to antibody engineering in cluding $F(ab)_2$, IgG, scFv and different Fc and non-Fc conjugates per customer request.

Applications

- Western Blot (Transfected lysate)

  Protocol Download

- ELISA

Gene Info — COX7A1

Entrez GeneID	1346
GeneBank Accession#	COX7A1
Gene Name	COX7A1
Gene Alias	COX7A, COX7AH, COX7AM
Gene Description	cytochrome c oxidase subunit VIIa polypeptide 1 (muscle)
Omim ID	123995
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 polypeptide 1 (muscle isoform) of subunit VIIa and the polypeptide 1 is present only in muscle tissues. Other polypeptides of subunit VIIa are present in both muscle and nonmuscle tissues, and are encoded by different genes. [provided by RefSeq
Other Designations	OTTHUMP00000045828|cytochrome c oxidase subunit VIIa heart/muscle isoform

Pathway

- Cardiac muscle contraction
- Oxidative phosphorylation

Disease

- Cardiovascular Diseases
- Diabetes Mellitus
- Edema
- Genetic Predisposition to Disease

- Insulin Resistance