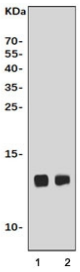
Cox6a2 Antibody (RQ6416)

Catalog No.	Formulation	Size
RQ6416	0.5mg/ml if reconstituted with 0.2ml sterile DI water	100 ug

Bulk quote request

Availability	1-3 business days
Species Reactivity	Mouse, Rat
Format	Purified
Host	Rabbit
Clonality	Polyclonal (rabbit origin)
Isotype	Rabbit IgG
Purity	Antigen affinity purified
Buffer	Lyophilized from 1X PBS with 2% Trehalose
UniProt	P43023
Applications	Western blot: 0.5-1ug/ml
Limitations	This Cox6a2 antibody is available for research use only.



Western blot testing of 1) rat heart and 2) mouse heart tissue lysate with Cox6a2 antibody. Predicted molecular weight ~11 kDa.

Description

Cytochrome c oxidase subunit VIa polypeptide 2 is a protein that in humans is encoded by the COX6A2 gene. Cytochrome c oxidase (COX), the terminal enzyme of the mitochondrial respiratory chain, catalyzes the electron transfer from reduced cytochrome c to oxygen. It 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 be involved in the regulation and assembly of the complex. This nuclear gene encodes polypeptide 2 (heart/muscle isoform) of subunit VIa, and polypeptide 2 is present only in striated muscles. Polypeptide 1 (liver isoform) of subunit VIa is encoded by a different gene, and is found in all non-

muscle tissues. These two polypeptides share 66% amino acid sequence identity.

Application Notes

Optimal dilution of the Cox6a2 antibody should be determined by the researcher.

Immunogen

Amino acids WMHAGHHERPEFIPYHHLR were used as the immunogen for the Cox6a2 antibody.

Storage

After reconstitution, the Cox6a2 antibody can be stored for up to one month at 4oC. For long-term, aliquot and store at -20oC. Avoid repeated freezing and thawing.

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