ARG58383
anti-COX6A1 antibody

Package: 100 µl
Store at: -20°C

Summary

Product Description	Rabbit Polyclonal antibody recognizes COX6A1
Tested Reactivity	Hu, Ms, Rat
Tested Application	ICC/IF, IHC-P, WB
Host	Rabbit
Clonality	Polyclonal
Isotype	IgG
Target Name	COX6A1
Species	Human
Immunogen	Recombinant fusion protein corresponding to aa. 25-109 of Human COX6A1 (NP_004364.2).
Conjugation	Un-conjugated
Alternate Names	COX6AL; Cytochrome c oxidase subunit VIA-liver; Cytochrome c oxidase subunit 6A1, mitochondrial; CMTRID; COX VIa-L; COX6A; Cytochrome c oxidase polypeptide VIa-liver

Application Instructions

Application table

Application	Dilution
ICC/IF	1:50 - 1:200
IHC-P	1:50 - 1:200
WB	1:200 - 1:2000

Application Note	* The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.
Positive Control	Rat liver
Observed Size	12 kDa

Properties

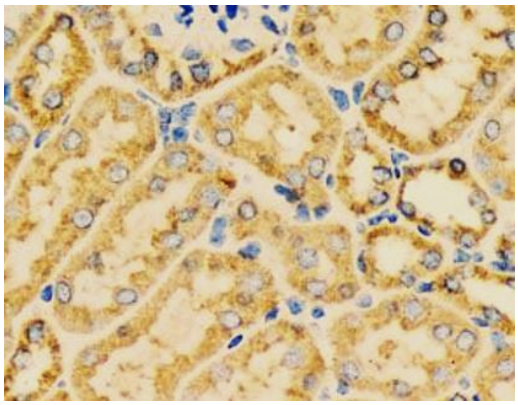
Form	Liquid
Purification	Affinity purified.
Buffer	PBS (pH 7.3), 0.02% Sodium azide and 50% Glycerol.
Preservative	0.02% Sodium azide
Stabilizer	50% Glycerol
Storage instruction	For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot and store at -20°C. Storage in frost free freezers is not recommended. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed before use.

Note	For laboratory research only, not for drug, diagnostic or other use.

Bioinformation

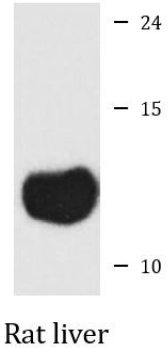
Gene Symbol	COX6A1
Gene Full Name	cytochrome c oxidase subunit VIa polypeptide 1
Background	Cytochrome c oxidase (COX), the terminal enzyme of the mitochondrial respiratory chain, catalyzes the electron transfer from reduced cytochrome c to oxygen. It is a heteromeric complex consisting of 3 catalytic subunits encoded by mitochondrial genes and multiple structural subunits encoded by nuclear genes. The mitochondrially-encoded subunits function in the electron transfer and the nuclear-encoded subunits may function in the regulation and assembly of the complex. This nuclear gene encodes polypeptide 1 (liver isoform) of subunit VIa, and polypeptide 1 is found in all non-muscle tissues. Polypeptide 2 (heart/muscle isoform) of subunit VIa is encoded by a different gene, and is present only in striated muscles. These two polypeptides share 66% amino acid sequence identity. It has been reported that there may be several pseudogenes on chromosomes 1, 6, 7q21, 7q31-32 and 12. However, only one pseudogene (COX6A1P) on chromosome 1p31.1 has been documented. [provided by RefSeq, Jul 2008]
Function	This protein is one of the nuclear-coded polypeptide chains of cytochrome c oxidase, the terminal oxidase in mitochondrial electron transport. [UniProt]
Calculated Mw	12 kDa
Cellular Localization	Mitochondrion inner membrane. [UniProt]

Images



ARG58383 anti-COX6A1 antibody IHC-P image

Immunohistochemistry: Paraffin-embedded Mouse kidney stained with ARG58383 anti-COX6A1 antibody at 1:100 dilution.



ARG58383 anti-COX6A1 antibody WB image

Western blot: 25 µg of Rat liver lysate stained with ARG58383 anti-COX6A1 antibody at 1:1000 dilution.