

ARG59833 anti-CHCHD4 / MIA40 antibody

Package: 100 µl
Store at: -20°C

Summary

Product Description	Rabbit Polyclonal antibody recognizes CHCHD4 / MIA40
Tested Reactivity	Hu, Ms, Rat
Tested Application	IHC-P, WB
Host	Rabbit
Clonality	Polyclonal
Isotype	IgG
Target Name	CHCHD4 / MIA40
Species	Human
Immunogen	Recombinant fusion protein corresponding to aa. 1-142 of Human CHCHD4 (NP_001091972.1).
Conjugation	Un-conjugated
Alternate Names	Coiled-coil-helix-coiled-coil-helix domain-containing protein 4; TIMM40; MIA40; Mitochondrial intermembrane space import and assembly protein 40

Application Instructions

Application table	Application	Dilution
	IHC-P	1:50 - 1:200
	WB	1:500 - 1:2000
Application Note	* The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.	
Positive Control	Mouse pancreas and 293T	
Observed Size	20 kDa	

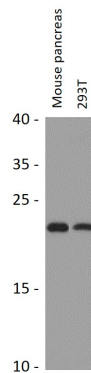
Properties

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	CHCHD4
Gene Full Name	coiled-coil-helix-coiled-coil-helix domain containing 4
Background	CHCHD4, a component of human mitochondria, belongs to a protein family whose members share 6 highly conserved cysteine residues constituting a -CXC-CX(9)C-CX(9)C- motif in the C terminus (Hofmann et al., 2005 [PubMed 16185709]).[supplied by OMIM, Mar 2008]
Function	Functions as chaperone and catalyzes the formation of disulfide bonds in substrate proteins, such as COX17. Required for the import and folding of small cysteine-containing proteins (small Tim) in the mitochondrial intermembrane space (IMS). Precursor proteins to be imported into the IMS are translocated in their reduced form into the mitochondria. The oxidized form of CHCHD4/MIA40 forms a transient intermolecular disulfide bridge with the reduced precursor protein, resulting in oxidation of the precursor protein that now contains an intramolecular disulfide bond and is able to undergo folding in the IMS. Reduced CHCHD4/MIA40 is then reoxidized by GFER/ERV1 via a disulfide relay system. [UniProt]
Calculated Mw	16 kDa
PTM	Forms intrachain disulfide bridges, but exists in different redox states. [UniProt]
Cellular Localization	Mitochondrion intermembrane space. Mitochondrion. [UniProt]

Images



ARG59833 anti-CHCHD4 / MIA40 antibody WB image

Western blot: 25 µg of Mouse pancreas and 293T cell lysates stained with ARG59833 anti-CHCHD4 / MIA40 antibody at 1:3000 dilution.