

Product datasheet

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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
• •	* 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.

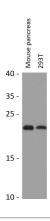
[UniProt]

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.