

anti- CHCHD4 antibody

Product Information

Catalog No.:	FNab01637
Size:	100µg
Form:	liquid
Purification:	Immunogen affinity purified
Purity:	≥95% as determined by SDS-PAGE
Host:	Rabbit
Clonality:	polyclonal
Clone ID:	None
IsoType:	IgG
Storage:	PBS with 0.02% sodium azide and 50% glycerol pH 7.3, -20°C for 12 months (Avoid repeated freeze / thaw cycles.)

Background

Functions as chaperone and catalyzes the formation of disulfide bonds in substrate proteins, such as COX17 or MICU1(PubMed:16185709, PubMed:26387864, PubMed:19182799, PubMed:21059946, PubMed:23186364). Required for the import and folding of small cysteine-containing proteins(small Tim) in the mitochondrial intermembrane space(IMS)(PubMed:16185709, PubMed:19182799, PubMed:21059946). Precursor proteins to be imported into the IMS are translocated in their reduced form into the mitochondria(PubMed:16185709, PubMed:19182799, PubMed:21059946). 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(PubMed:16185709, PubMed:19182799, PubMed:21059946). Reduced CHCHD4/MIA40 is then reoxidized by GFER/ERV1 via a disulfide relay system(PubMed:23186364). Mediates formation of disulfide bond in MICU1 in the IMS, promoting formation of the MICU1-MICU2 heterodimer that regulates mitochondrial calcium uptake(PubMed:26387864).

Immunogen information

Immunogen:	coiled-coil-helix-coiled-coil-helix domain containing 4
Synonyms:	MIA40

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Observed MW: 22-25 kDa

UniprotID : Q8N4Q1

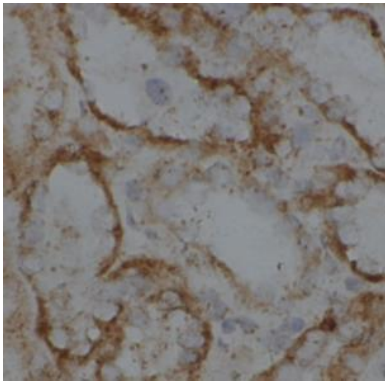
Application

Reactivity: Human, Mouse, Rat

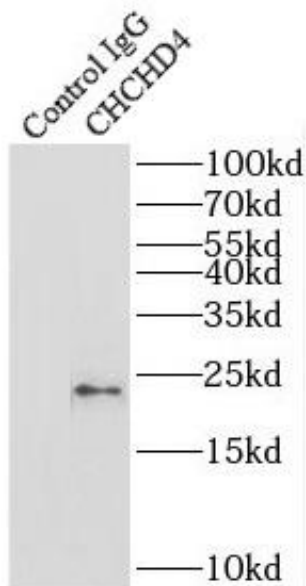
Tested Application: ELISA, IHC, IF, WB, IP

Recommended dilution: WB: 1:500-1:2000; IP: 1:200-1:1000; IHC: 1:20-1:200; IF: 1:20-1:200

Image:



Immunohistochemistry of paraffin-embedded human kidney using FNab01637(CHCHD4 antibody) at dilution of 1:100



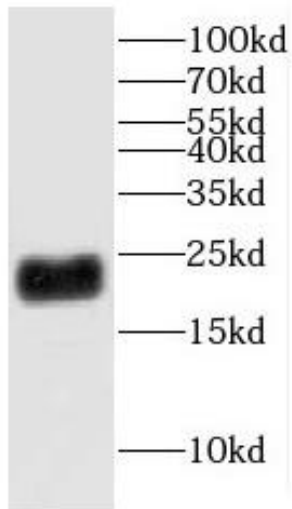
IP result of anti-CHCHD4(IP:FNab01637, 4ug; Detection:FNab01637 1:1000) with mouse brain tissue lysate 3200 ug

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rat brain tissue were subjected to SDS PAGE followed by western blot with FNab01637(CHCHD4 Antibody) at dilution of 1:1500