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CHCHD3 Rabbit pAb

Catalog # AP97726

Product Information

Application	IHC-P, IHC-F, IF, E
Primary Accession	Q9NX63
Other Accession	Q9NX63
Predicted	Rat, Human, Mouse
Host	Rabbit
Clonality	Polyclonal
Calculated MW	26152
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human CHCHD3
Epitope Specificity	1-100/227
Isotype	IgG
Purity	affinity purified by Protein A
Buffer	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
SIMILARITY	Contains 1 CHCH domain.
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	Required for maintenance of mitochondrial crista integrity and mitochondrial function. May act as a scaffolding protein that stabilizes protein complexes involved in crista architecture and protein import. Has also been shown to function as a transcription factor which binds to the BAG1 promoter and represses BAG1 transcription.

Additional Information

Gene ID	54927
Other Names	MICOS19; MINOS3; Mic19; PPP1R22; 0610041L09Rik; 1700039J09Rik; MIC19_BOVIN; CHCHD3; Coiled-coil-helix-coiled-coil-helix domain-containing protein 3; MIC19_HUMAN; MIC19_MOUSE; coiled-coil-helix-coiled-coil-helix domain containing 3; mitochondrial inner membrane organizing system 3; protein phosphatase 1, regulatory subunit 22; mitochondrial contact site and cristae organizing system subunit 19
Dilution	IHC-P=1:100-500,IHC-F=1:100-500,ICC/IF=1:100-500,IF=1:100-500,ELISA=1:5000-10000
Storage	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.

Protein Information

Name	CHCHD3
Synonyms	MIC19, MINOS3
Function	Component of the MICOS complex, a large protein complex of the mitochondrial inner membrane that plays crucial roles in the maintenance of crista junctions, inner membrane architecture, and formation of contact sites to the outer membrane (PubMed:25781180, PubMed:32567732, PubMed:33130824). Plays an important role in the maintenance of the MICOS complex stability and the mitochondrial cristae morphology (PubMed:25781180, PubMed:32567732, PubMed:33130824). Has also been shown to function as a transcription factor which binds to the BAG1 promoter and represses BAG1 transcription (PubMed:22567091).
Cellular Location	Mitochondrion inner membrane {ECO:0000250|UniProtKB:Q9CRB9}; Lipid-anchor; Intermembrane side {ECO:0000250|UniProtKB:Q9CRB9}. Cytoplasm. Nucleus Mitochondrion
Tissue Location	Detected at low levels in brain, placenta, lung, liver, kidney and pancreas with increased levels in heart and skeletal muscle. Higher expression in primary lung cancers than in normal lung tissue.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.