

For Research Use Only

CHCHD3 Polyclonal antibody

Catalog Number: 25625-1-AP

33 Publications



Basic Information

Catalog Number:

25625-1-AP

Size:

150ul, Concentration: 750 ug/ml by Nanodrop;

Source:

Rabbit

Isotype:

IgG

Immunogen Catalog Number:

AG22579

GenBank Accession Number:

BC014839

GeneID (NCBI):

54927

UNIPROT ID:

Q9NX63

Full Name:

coiled-coil-helix-coiled-coil-helix domain containing 3

Calculated MW:

227 aa, 26 kDa

Observed MW:

26 kDa

Purification Method:

Antigen affinity purification

Recommended Dilutions:

WB 1:4000-1:12000

IP 0.5-4.0 ug for 1.0-3.0 mg of total protein lysate

IHC 1:50-1:500

IF/ICC 1:50-1:500

Applications

Tested Applications:

WB, IHC, IF/ICC, IP, ELISA

Cited Applications:

WB, IF, IP, ColP

Species Specificity:

human, mouse

Cited Species:

human, mouse

Positive Controls:

WB: HEK-293 cells, human placenta tissue, A431 cells, mouse liver tissue, HeLa cells, Jurkat cells, NIH/3T3 cells, NIH/3T3 cells.

IP: HeLa cells,

IHC: human liver tissue, human heart tissue

IF/ICC: HepG2 cells,

Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0

Background Information

CHCHD3, initially identified as a substrate for cAMP-dependent protein kinase (PKA), is a ubiquitous protein in the mitochondria and plays a prominent role in maintaining cristae integrity and mitochondrial function. In mitochondria, ChChd3 is predominantly localized to the inner membrane (IM), facing toward the intermembrane space (IMS), and is part of the large protein complex now called as MINOS (mitochondrial inner membrane organizing system), or MIB (mitochondrial intermembrane space bridging). CHCHD3 is highly conserved in mammals with human and mouse protein sharing 92% sequence similarity.

Notable Publications

Author	Pubmed ID	Journal	Application
Yutong Shang	36104602	Acta Neuropathol	WB
Takahiro Yoshinaka	31522117	iScience	WB
Foteini Violitzi	31550165	J Proteome Res	WB

Storage

Storage:

Store at -20°C. Stable for one year after shipment.

Storage Buffer:

PBS with 0.02% sodium azide and 50% glycerol pH 7.3.

Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

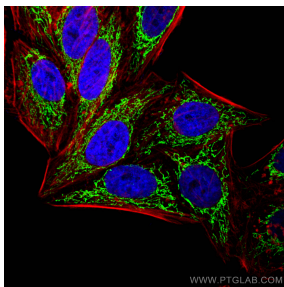
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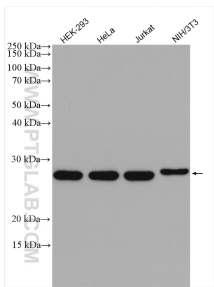
E: proteintech@ptglab.com
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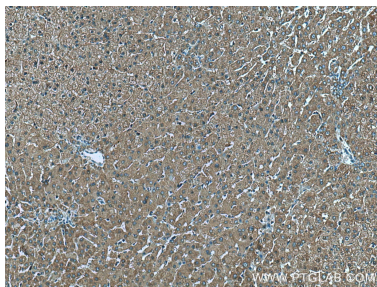
Selected Validation Data



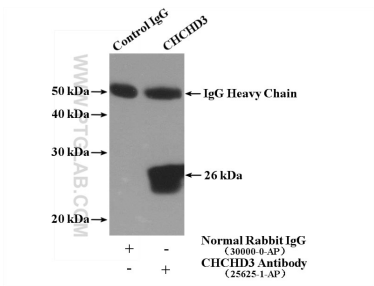
Immunofluorescent analysis of (4% PFA) fixed HepG2 cells using CHCHD3 antibody (25625-1-AP) at dilution of 1:200 and CoraLite®488-Conjugated Goat Anti-Rabbit IgG(H+L), CL594-Phalloidin (red).



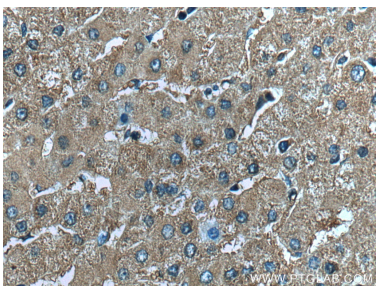
Various lysates were subjected to SDS PAGE followed by western blot with 25625-1-AP (CHCHD3 antibody) at dilution of 1:8000 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded human liver tissue slide using 25625-1-AP (CHCHD3 antibody) at dilution of 1:200 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



IP result of anti-CHCHD3 (IP:25625-1-AP, 4ug; Detection:25625-1-AP 1:1000) with HeLa cells lysate 2600ug.



Immunohistochemical analysis of paraffin-embedded human liver tissue slide using 25625-1-AP (CHCHD3 antibody) at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).