

For Research Use Only

CHCHD2 Monoclonal antibody

Catalog Number: 66302-1-Ig

Featured Product

8 Publications



Basic Information

Catalog Number: 66302-1-Ig	GenBank Accession Number: BC003079	Purification Method: Protein A purification
Size: 150ul, Concentration: 3190 µg/ml by Nanodrop and 1000 µg/ml by Bradford method using BSA as the standard;	GeneID (NCBI): 51142	CloneNo.: 2G1G10
Source: Mouse	Full Name: coiled-coil-helix-coiled-coil-helix domain containing 2	Recommended Dilutions: WB 1:5000-1:50000 IHC 1:50-1:500 IF 1:1500-1:6000
Isotype: IgG1	Calculated MW: 151 aa, 16 kDa	
Immunogen Catalog Number: AG24219	Observed MW: 17 kDa	

Applications

Tested Applications:

IF, IHC, WB, ELISA

Cited Applications:

IF, IHC, WB

Species Specificity:

human, pig, rat

Cited Species:

human

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

Positive Controls:

WB: HEK-293 cells, rat liver tissue, LNCaP cells, HeLa cells, Jurkat cells, K-562 cells, L02 cells, SMMC-7721 cells, pig liver tissue

IHC: human liver cancer tissue,

IF: HepG2 cells,

Background Information

CHCHD2 is a widely expressed 16.7-kDa mitochondrion-localized protein. CHCHD2 contains a C-terminal CHCH (coiled-coil helix coiled-coil helix) domain. Mutations in CHCHD2 gene have been reported in autosomal dominant Parkinson's disease (ADPD). CHCHD2 is a bi-organelle mediator of oxidative phosphorylation, playing crucial roles in regulating electron flow in the mitochondrial electron transport chain and acting as a nuclear transcription factor for a cytochrome c oxidase subunit (COX4L2) and itself in response to hypoxic stress. CHCHD2 also regulates cell migration and differentiation, mitochondrial cristae structure, and apoptosis (PMID: 33967741).

Notable Publications

Author	Pubmed ID	Journal	Application
Ryan Houston	34495738	Mol Biol Cell	IHC
Siddhesh Aras	33257573	Proc Natl Acad Sci U S A	WB
Xiaodan Liu	33685516	Acta Neuropathol Commun	IHC,IF,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

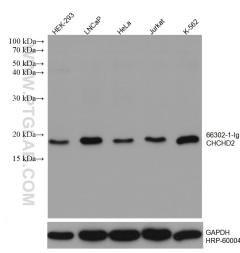
For technical support and original validation data for this product please contact:

T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)

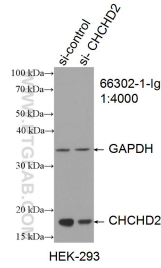
E: proteintech@ptglab.com
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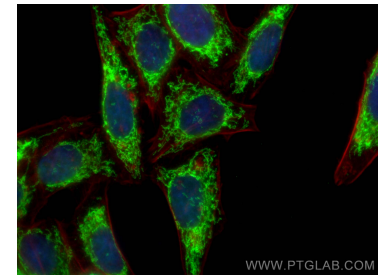
Selected Validation Data



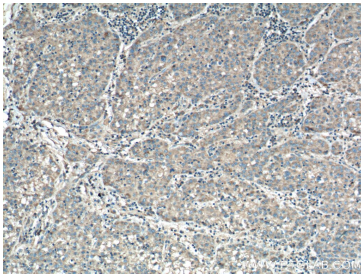
Various lysates were subjected to SDS PAGE followed by western blot with 66302-1-Ig (CHCHD2 antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours. The membrane was stripped and reblotted with HRP-conjugated GAPDH Monoclonal antibody (HRP-60004) as loading control.



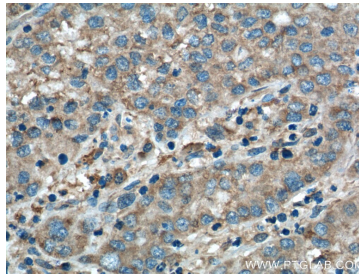
WB result of CHCHD2 antibody (66302-1-Ig; 1:4000; incubated at room temperature for 1.5 hours) with sh-Control and sh-CHCHD2 transfected HEK-293 cells.



Immunofluorescent analysis of (4% PFA) fixed HepG2 cells using CHCHD2 antibody (66302-1-Ig, Clone: 2G1G10) at dilution of 1:3000 and CoraLite@488-Conjugated AffiniPure Goat Anti-Mouse IgG(H+L), CL594-Phalloidin (red).



Immunohistochemical analysis of paraffin-embedded human liver cancer tissue slide using 66302-1-Ig (CHCHD2 Antibody) at dilution of 1:200 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded human liver cancer tissue slide using 66302-1-Ig (CHCHD2 Antibody) at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).