

For Research Use Only

CHCHD2 Recombinant antibody, PBS Only

Catalog Number: 82702-1-PBS

Featured Product



Basic Information

Catalog Number:

82702-1-PBS

Size:

1mg/ml

Source:

Rabbit

Isotype:

IgG

Immunogen Catalog Number:

AG13752

GenBank Accession Number:

BC003079

GeneID (NCBI):

51142

UNIPROT ID:

Q9Y6H1

Full Name:

coiled-coil-helix-coiled-coil-helix domain containing 2

Calculated MW:

151 aa, 16 kDa

Observed MW:

16 kDa

Purification Method:

Protein A purification

CloneNo.:

4A12

Applications

Tested Applications:

WB, IF/ICC, Indirect ELISA

Species Specificity:

human, rat

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-organellar 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 (COX4I2) and itself in response to hypoxic stress. CHCHD2 also regulates cell migration and differentiation, mitochondrial cristae structure, and apoptosis (PMID: 33967741).

Storage

Storage:

Store at -80°C.

The product is shipped with ice packs. Upon receipt, store it immediately at -80°C

Storage Buffer:

PBS Only

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

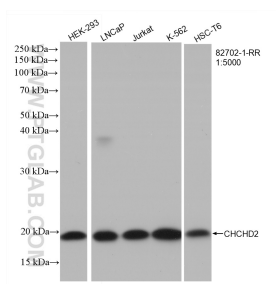
T: 4006900926

E: Proteintech-CN@ptglab.com

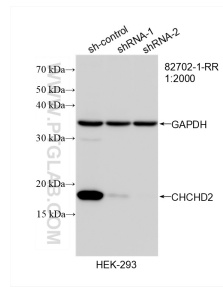
W: ptgcn.com

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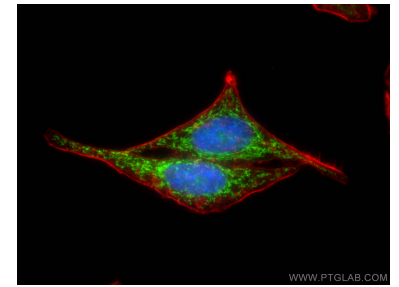
Selected Validation Data



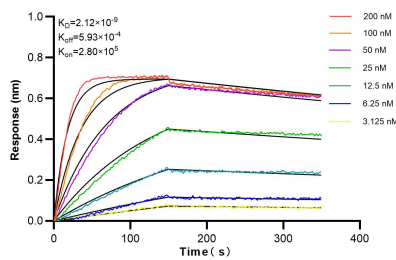
Various lysates were subjected to SDS PAGE followed by western blot with 82702-1-RR (CHCHD2 antibody) at dilution of 1:5000 incubated at room temperature for 1.5 hours. This data was developed using the same antibody clone with 82702-1-PBS in a different storage buffer formulation.



WB result of CHCHD2 antibody (82702-1-RR; 1:2000; incubated at room temperature for 1.5 hours) with sh-Control and sh-CHCHD2 transfected HEK-293 cells. This data was developed using the same antibody clone with 82702-1-PBS in a different storage buffer formulation.



Immunofluorescent analysis of (4% PFA) fixed HepG2 cells using CHCHD2 antibody (82702-1-RR, Clone: 4A12) at dilution of 1:500 and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L), CL594-Phalloidin (red). This data was developed using the same antibody clone with 82702-1-PBS in a different storage buffer formulation.



Biolayer interferometry (BLI) kinetic assays of 82702-1-RR against Human CHCHD2 were performed. The affinity constant is 2.12 nM.