

For Research Use Only

CCDC111/PRIMPOL Polyclonal antibody

Catalog Number: 29824-1-AP

Featured Product

14 Publications



Basic Information

Catalog Number:

29824-1-AP

Concentration:

650 µg/ml

Source:

Rabbit

Isotype:

IgG

Immunogen Catalog Number:

AG31478

GenBank Accession Number:

BC064600

GeneID (NCBI):

201973

UNIPROT ID:

Q96LW4

Full Name:

coiled-coil domain containing 111

Observed MW:

64 kDa

Purification Method:

Antigen affinity purification

Recommended Dilutions:

WB 1:1000-1:4000

IHC 1:50-1:500

IF/ICC 1:200-1:800

Applications

Tested Applications:

WB, IHC, IF/ICC, ELISA

Cited Applications:

WB

Species Specificity:

Human

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: A549 cells, HEK-293 cells, HepG2 cells, HeLa cells, Jurkat cells

IHC: human kidney tissue,

IF/ICC: U2OS cells,

Background Information

CCDC111, also known as PRIMPOL, FLJ33167, which contains the active-site motifs of AEP primases and a putative Zn finger similar to that of herpesvirus UL52 primase and other AEP-like enzymes. CCDC111 is required to facilitate mitochondrial and nuclear replication fork progression by initiating de novo DNA synthesis using dNTPs and acting as an error-prone DNA polymerase able to bypass certain DNA lesions (PMID: 24126761, PMID: 24207056). In addition to its role in DNA damage response, also required to maintain efficient nuclear and mitochondrial DNA replication in unperturbed cells (Uniprot, PMID: 30715459).

Notable Publications

Author	Pubmed ID	Journal	Application
Lilly F Chiou	39829812	bioRxiv	WB
Lindsey M Pale	39530221	Nucleic Acids Res	WB
Joshua Straka	39558157	Nucleic Acids Res	

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

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

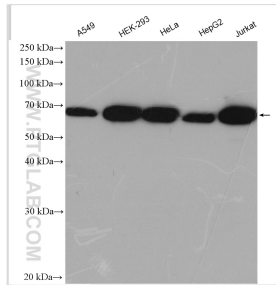
T: 4006900926

E: Proteintech-CN@ptglab.com

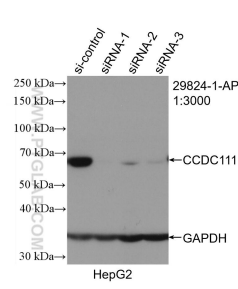
W: ptgcn.com

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

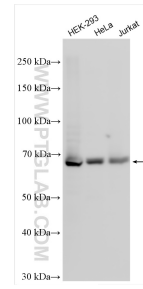
Selected Validation Data



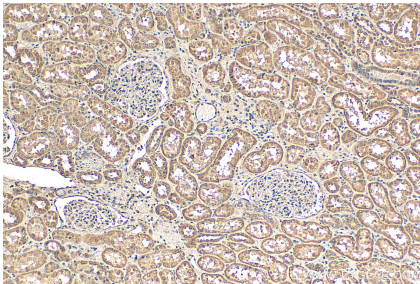
Various lysates were subjected to SDS PAGE followed by western blot with 29824-1-AP (CCDC111/PRIMPOL antibody) at dilution of 1:2000 incubated at room temperature for 1.5 hours.



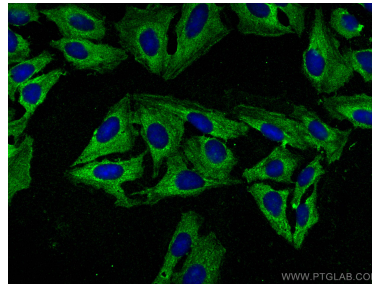
WB result of CCDC111/PRIMPOL antibody (29824-1-AP; 1:3000; incubated at room temperature for 1.5 hours) with sh-Control and sh-CCDC111/PRIMPOL transfected HepG2 cells.



Various lysates were subjected to SDS PAGE followed by western blot with 29824-1-AP (CCDC111/PRIMPOL antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded human kidney tissue slide using 29824-1-AP (CCDC111/PRIMPOL antibody) at dilution of 1:200 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (-20°C Methanol) fixed U2OS cells using CCDC111/PRIMPOL antibody (29824-1-AP) at dilution of 1:400 and CoraLite®488-Conjugated Goat Anti-Rabbit IgG(H+L).