

For Research Use Only

# CCDC111/PRIMPOL Polyclonal antibody

Catalog Number: 29824-1-AP

Featured Product

18 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, IF

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
Jay R Anand	40115747	NAR Cancer	WB
Ganesh Pai Bellare	40089867	Adv Sci (Weinh)	WB
Ashna Dhoonmoon	40014449	Cell Rep	IF

## Storage

Storage:

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

Storage Buffer:

PBS with 0.02% sodium azide and 50% glycerol, pH7.3

Aliquoting is unnecessary for -20°C storage

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

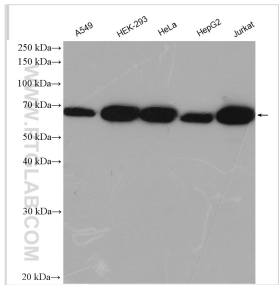
T: 4006900926

E: [Proteintech-CN@ptglab.com](mailto:Proteintech-CN@ptglab.com)

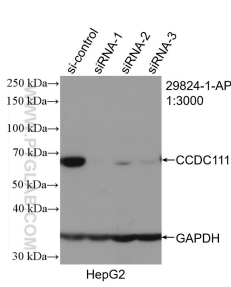
W: [ptgcn.com](http://ptgcn.com)

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

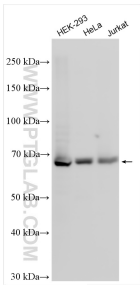
Selected Validation Data



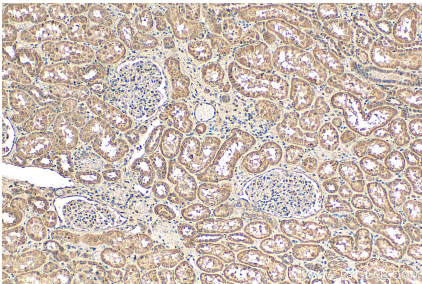
Various lysates were subjected to SDS PAGE followed by western blot with 29824-1-AP (CCDC111/PRIMPOL antibody) at dilution of 1:2000 incubated at room temperature for 1.5 hours.



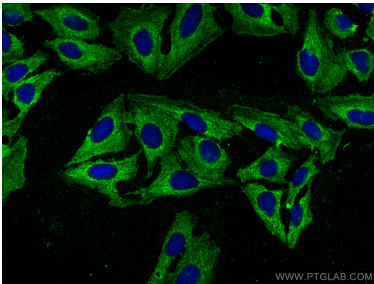
WB result of CCDC111/PRIMPOL antibody (29824-1-AP; 1:3000; incubated at room temperature for 1.5 hours) with sh-Control and sh-CCDC111/PRIMPOL transfected HepG2 cells.



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).