

For Research Use Only

CCDC111/PRIMPOL Polyclonal antibody

Catalog Number: 29824-1-AP

Featured Product

14 Publications



Basic Information

Catalog Number: 29824-1-AP	GenBank Accession Number: BC064600	Purification Method: Antigen affinity purification
Size: 150ul , Concentration: 650 ug/ml by Nanodrop;	GeneID (NCBI): 201973	Recommended Dilutions: WB 1:1000-1:4000 IHC 1:50-1:500 IF/ICC 1:200-1:800
Source: Rabbit	UNIPROT ID: Q96LW4	
Isotype: IgG	Full Name: coiled-coil domain containing 111	
Immunogen Catalog Number: AG31478	Observed MW: 64 kDa	

Applications

Tested Applications: WB, IHC, IF/ICC, ELISA	Positive Controls: WB : A549 cells, HEK-293 cells, HepG2 cells, HeLa cells, Jurkat cells
Cited Applications: WB	IHC : human kidney tissue,
Species Specificity: Human	IF/ICC : U2OS cells,
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

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

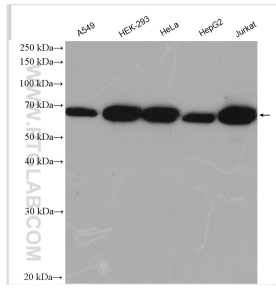
Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.
Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1%BSA

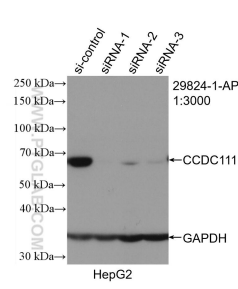
For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
E: proteintech@ptglab.com
W: ptglab.com

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

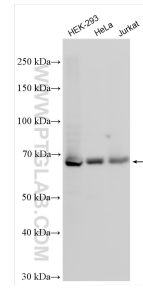
Selected Validation Data



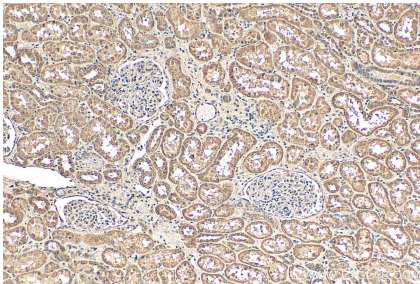
Various lysates were subjected to SDS PAGE followed by western blot with 29824-1-AP (CCDC111/PRIMPOL antibody) at dilution of 1:2000 incubated at room temperature for 1.5 hours.



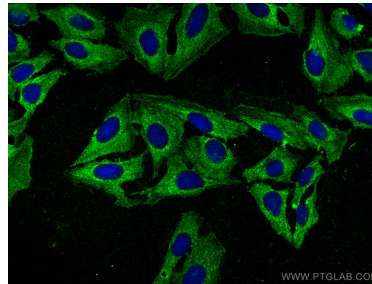
WB result of CCDC111/PRIMPOL antibody (29824-1-AP; 1:3000; incubated at room temperature for 1.5 hours) with sh-Control and sh-CCDC111/PRIMPOL transfected HepG2 cells.



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 CoralLite® 488-Conjugated Goat Anti-Rabbit IgG(H+L).