For Research Use Only

DCUN1D5 Polyclonal antibody

Catalog Number:14810-1-AP Featured Product 3 Publications

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Basic Information

Catalog Number:
14810-1-AP

Size:
150ul , Concentration: 300 ug/ml by Nanodrop and 287 ug/ml by Bradford method using BSA as the standard;

Source:
Rabbit

Isotype:
IgG

Immunogen Catalog Number:
AG6534

GenBank Accession Number:
BC004169

GeneID (NCBI):
84259

UNIPROT ID:
Q9BTE7

Full Name:
DCN1, defective in cullin neddylation 1, domain containing 5 (S. cerevisiae)

Calculated MW:
28 kDa

Observed MW:
28 kDa

Purification Method:
Antigen affinity purification

Recommended Dilutions:
WB 1:500-1:2000
IP 0.5-4.0 ug for 1.0-3.0 mg of total protein lysate
IF/ICC 1:50-1:500

Applications

Tested Applications:
WB, IF/ICC, IP, ELISA

Cited Applications:
WB, IHC

Species Specificity:
human, mouse, rat

Cited Species:
human

Positive Controls:

WB : HeLa cells, HEK-293 cells, mouse brain tissue, rat spleen tissue, U-937 cells

IP : HeLa cells,

IF/ICC : HeLa cells,

Background Information

Conjugation of Nedd8 to a cullin protein, termed neddylation, is an evolutionarily conserved process that functions to activate the cullin-RING family E3 ubiquitin ligases, leading to increased proteasomal degradation of a wide range of substrate proteins. Cellular neddylation requires the action of DCN1 (Defective in cullin neddylation protein 1), which, in humans, consists of five homologues designated as DCNL1-5. DCUN1D5 gene encodes the 28 kDa DCUN1 domain-containing protein 5 containing a C-terminal potentiating neddylation domain. The cellular function of DCUN1D5 needs to be explored, recently, a mono-ubiquitination-mediated mechanism that governs nuclear-cytoplasmic trafficking of hDCNL1, was reported to regulate hDCNL1-dependent activation of the cullin-RING E3 ubiquitin ligases in selected cellular compartments.

Notable Publications

Author	Pubmed ID	Journal	Application
Kate E Coleman	28475037	Elife	WB
Guo Wei W	23098533	Asian Pac J Cancer Prev	WB,IHC
Yuxiang Lin	38831379	Biol Direct	WB,IHC

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)
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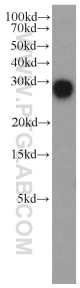
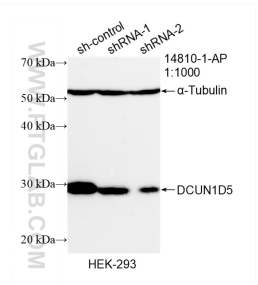
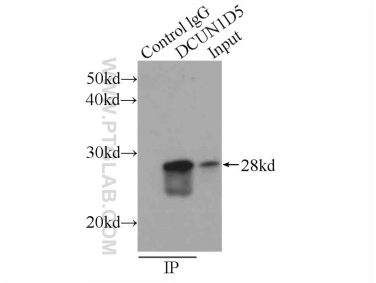
Selected Validation Data



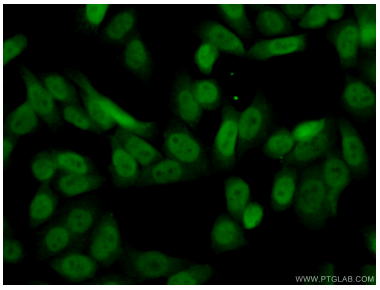
HeLa cells were subjected to SDS PAGE followed by western blot with 14810-1-AP (DCUN1D5 antibody) at dilution of 1:500 incubated at room temperature for 1.5 hours.



WB result of DCUN1D5 antibody (14810-1-AP; 1:1000; incubated at room temperature for 1.5 hours) with sh-Control and sh-DCUN1D5 transfected HEK-293 cells.



IP result of anti-DCUN1D5 (IP:14810-1-AP, 3ug; Detection:14810-1-AP 1:800) with HeLa cells lysate 1840ug.



Immunofluorescent analysis of (10% Formaldehyde) fixed HeLa cells using 14810-1-AP (DCUN1D5 antibody) at dilution of 1:50 and Alexa Fluor 488-conjugated Goat Anti-Rabbit IgG(H+L).