For Research Use Only

CUL3 Polyclonal antibody

Catalog Number:11107-1-AP Featured Product 20 Publications

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Basic Information

Catalog Number:
11107-1-AP

Size:
150ul , Concentration: 900 ug/ml by Nanodrop;

Source:
Rabbit

Isotype:
IgG

Immunogen Catalog Number:
AG1555

GenBank Accession Number:
BC039598

GeneID (NCBI):
8452

UNIPROT ID:
Q13618

Full Name:
cullin 3

Calculated MW:
89 kDa

Observed MW:
80-89 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, IHC, IF, IP

Species Specificity:
human, mouse, rat

Cited Species:
human, mouse, rat

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 : HeLa cells, Jurkat cells, SH-SY5Y cells, NIH/3T3 cells, Neuro cells, PC-12 cells, mouse testis tissue, rat testis tissue, mouse brain tissue

IHC : human prostate cancer tissue,

IF/ICC : HEK-293 cells,

Background Information

Cullin-RING-based BCR (BTB-CUL3-RBX1) E3 ligase are the largest family of ubiquitin ligases which mediate the ubiquitination and subsequent proteasomal degradation of target proteins. One of seven cullin proteins serves as a scaffold protein for the assembly of the multisubunit ubiquitin ligase complex. CUL3 (Cullin-3) ubiquitin ligase complex targets multiple substrate for ubiquitination including cyclin E and of cyclin D1. Defects in CUL3 are the cause of Pseudohypoaldosteronism type 2E (PHA2E) characterized by severe hypertension, hyperkalemia, hyperchloremia, hyperchloremic metabolic acidosis, and correction of physiologic abnormalities by thiazide diuretics.

Notable Publications

Author	Pubmed ID	Journal	Application
Guanxia Zhu	33046973	J Cancer	WB,IHC
Chenjia Guo	33227565	Neurobiol Aging	WB
Xizi Jiang	33292627	Cell Biosci	WB

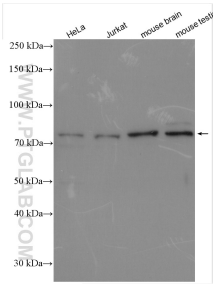
Storage

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

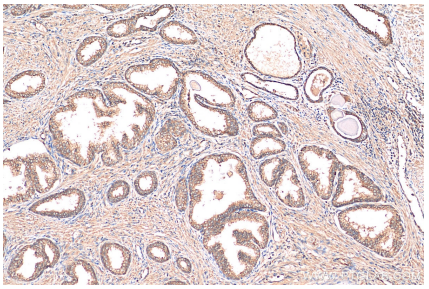
*** 20ul sizes contain 0.1% BSA

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

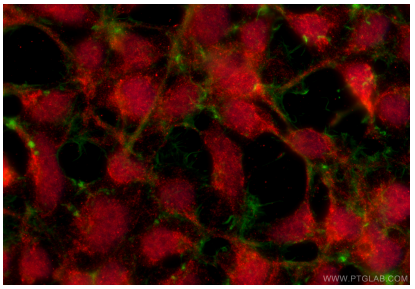
Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 11107-1-AP (CUL3 antibody) at dilution of 1:2000 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded human prostate cancer tissue slide using 11107-1-AP (CUL3 antibody) at dilution of 1:200 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (4% PFA) fixed HEK-293 cells using CUL3 antibody (11107-1-AP) at dilution of 1:400 and CoraLite®594-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-4), CL488-Phalloidin (green).