For Research Use Only

LIMD1 Polyclonal antibody

Catalog Number:28106-1-AP 1 Publications

proteintech®
Antibodies | ELISA kits | Proteins
www.ptglab.com

Basic Information

Catalog Number:
28106-1-AP

Size:
150ul , Concentration: 900 ug/ml by Nanodrop and 467 ug/ml by Bradford method using BSA as the standard;

Source:
Rabbit

Isotype:
IgG

Immunogen Catalog Number:
AG27974

GenBank Accession Number:
NM_014240

GeneID (NCBI):
8994

UNIPROT ID:
Q9UGP4

Full Name:
LIM domains containing 1

Calculated MW:
72 aa

Observed MW:
72 kDa

Purification Method:
Antigen affinity purification

Recommended Dilutions:
WB 1:1000-1:8000
IP 0.5-4.0 ug for 1.0-3.0 mg of total protein lysate
IF/ICC 1:200-1:800

Applications

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

Cited Applications:
IF

Species Specificity:
Human

Cited Species:
human

Positive Controls:

WB : A549 cells, HeLa cells

IP : HeLa cells,

IF/ICC : HeLa cells,

Background Information

LIMD1 is a member of the Ajuba family of LIM domain-containing proteins, these kinds of proteins have been shown to play a role in intracellular signaling, transcriptional regulation and cellular differentiation, proliferation and migration (PMID:17174104). LIMD1 predominantly localizes to the cytoplasm especially in the E-cadherin cell-cell adhesive junction, yet also translocates to the nucleus when functions as an RB corepressor (PMID:19060205). And LIMD1 acts as a scaffolding protein to form a PHD-LIMD1-VHL axis, facilitating HIF1α ubiquitination and degradation by the proteasome (PMID:22800800). LIMD1 specifically interacts with retinoblastoma protein (pRB), inhibits E2F-mediated transcription, and suppresses the expression of the majority of genes with E2F1-responsive elements. As a tumor suppressor, LIMD1 blocks tumor growth in vitro and in vivo, and is frequently down-regulated in human lung tumors (PMID:15542589), and it also be detected in normal and breast cancer tissues. LIMD1 protein exists several phosphorylation sites, which may affect its theoretical molecular weight when tested. Proteintech's 28106-1-AP antibody was generated by 133 amino acids, it could recognize the full-length protein in applications.

Notable Publications

Author	Pubmed ID	Journal	Application
Peigang Liang	38466167	J Cell Biol	IF

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
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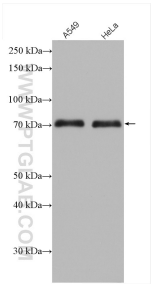
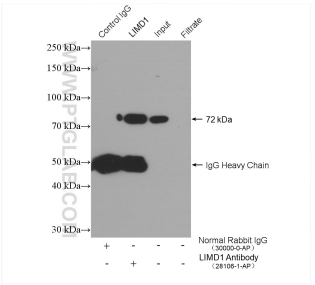
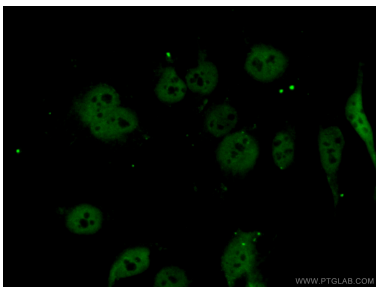
Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 28106-1-AP (LIMD1 antibody) at dilution of 1:4000 incubated at room temperature for 1.5 hours.



IP result of anti-LIMD1 (IP:28106-1-AP, 4ug; Detection:28106-1-AP 1:1000) with HeLa cells lysate 2640 ug.



Immunofluorescent analysis of (4% PFA) fixed HeLa cells using 28106-1-AP (LIMD1 antibody) at dilution of 1:400 and Alexa Fluor 488-Conjugated Goat Anti-Rabbit IgG(H+L).