

For Research Use Only

# LIMD1 Polyclonal antibody

Catalog Number: 28106-1-AP



## Basic Information

<b>Catalog Number:</b> 28106-1-AP	<b>GenBank Accession Number:</b> NM_014240	<b>Purification Method:</b> Antigen affinity purification
<b>Size:</b> 900 µg/ml	<b>GeneID (NCBI):</b> 8994	<b>Recommended Dilutions:</b> WB 1:1000-1:8000 IP 0.5-4.0 µg for 1.0-3.0 mg of total protein lysate IF 1:200-1:800
<b>Source:</b> Rabbit	<b>UNIPROT ID:</b> Q9UGP4	
<b>Isotype:</b> IgG	<b>Full Name:</b> LIM domains containing 1	
<b>Immunogen Catalog Number:</b> AG27974	<b>Calculated MW:</b> 72 aa <b>Observed MW:</b> 72 kDa	

## Applications

<b>Tested Applications:</b> IF/ICC, IP, WB, ELISA	<b>Positive Controls:</b> WB : A549 cells, HeLa cells IP : HeLa cells, IF : HeLa cells,
<b>Species Specificity:</b> Human	

## 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 HIF1 $\alpha$  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.

## 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

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

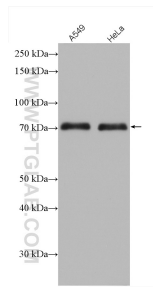
T: 4006900926

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

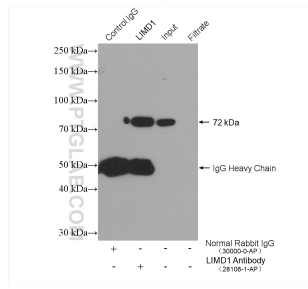
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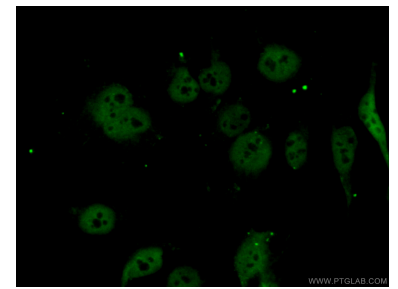
## Selected Validation Data



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 AffiniPure Goat Anti-Rabbit IgG(H+L).