

For Research Use Only

# MVP/LRP Polyclonal antibody

Catalog Number: 16478-1-AP

Featured Product

8 Publications



## Basic Information

**Catalog Number:**  
16478-1-AP

**Size:**  
150ul, Concentration: 650 µg/ml by Nanodrop and 273 µg/ml by Bradford method using BSA as the standard;

**Source:**  
Rabbit

**Isotype:**  
IgG

**Immunogen Catalog Number:**  
AG9593

**GenBank Accession Number:**  
BC015623

**GeneID (NCBI):**  
9961

**Full Name:**  
major vault protein

**Calculated MW:**  
893 aa, 99 kDa

**Observed MW:**  
99-104 kDa

**Purification Method:**  
Antigen affinity purification

**Recommended Dilutions:**  
WB 1:500-1:2000  
IP 0.5-4.0 ug for IP and 1:500-1:1000 for WB  
IHC 1:50-1:500  
IF 1:50-1:500

## Applications

**Tested Applications:**  
IF, IHC, IP, WB, ELISA

**Cited Applications:**  
IF, IHC, IP, WB

**Species Specificity:**  
human, mouse, rat

**Cited Species:**  
human, mouse

**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:** A549 cells, RAW264.7, human brain tissue, SH-SY5Y cells, HEK-293 cells, mouse lung tissue, rat lung tissue

**IP:** mouse lung tissue,

**IHC:** human breast cancer tissue, human lung cancer tissue, human kidney tissue, human testis tissue, human skin tissue

**IF:** HeLa cells,

## Background Information

Vaults are the largest cellular ribonuclear protein complexes with a hollow barrel-like structure, and have been associated with the MDR phenotype. Major vault protein (MVP) is the main component of vaults and is presumed to be involved in MDR. MVP is identical with the human lung resistance protein (LRP), known to be overexpressed in multiple chemotherapy resistance models [PMID:23083532]. MVP has been associated to resistance to radiotherapy [4], probably due to its role in preventing apoptosis by inhibiting the COP-1/p53 axis [PMID: 12894554, 15994960].

## Notable Publications

Author	Pubmed ID	Journal	Application
Y Q Jiang	27706681	Genet Mol Res	WB
Wang Xiaoqian	34855554	Technol Cancer Res Treat	WB,IHC
Xubin Dong	35433709	Front Cell Dev Biol	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

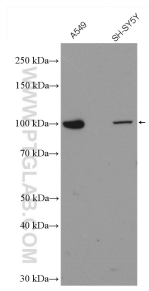
For technical support and original validation data for this product please contact:

T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)

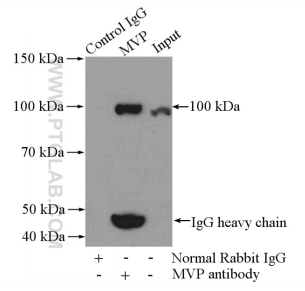
E: proteintech@ptglab.com  
W: ptglab.com

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

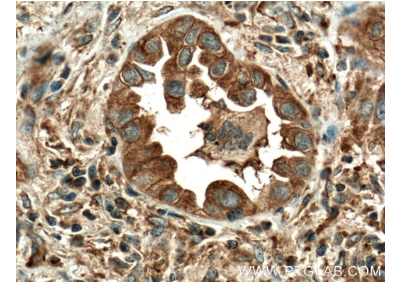
## Selected Validation Data



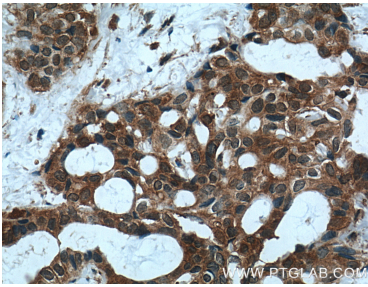
Various cells were subjected to SDS PAGE followed by western blot with 16478-1-AP (MVP/LRP antibody) at dilution of 1:1000 incubated at room temperature for 1.5 hours.



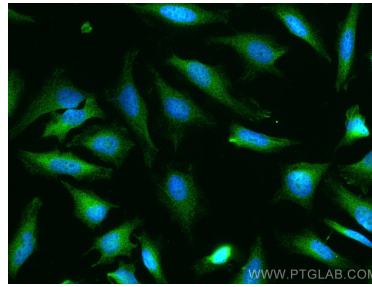
IP Result of anti-MVP/LRP (IP:16478-1-AP, 4ug; Detection:16478-1-AP 1:500) with mouse lung tissue lysate 4000ug.



Immunohistochemical analysis of paraffin-embedded human lung cancer tissue slide using 16478-1-AP (MVP/LRP antibody at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded human breast cancer tissue slide using 16478-1-AP (MVP/LRP antibody at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (4% PFA) fixed HeLa cells using MVP/LRP antibody (16478-1-AP) at dilution of 1:200 and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).