For Research Use Only

MVP/LRP Polyclonal antibody

Catalog Number:16478-1-AP Featured Product 14 Publications

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Basic Information

Catalog Number:
16478-1-AP

Size:
150ul , Concentration: 650 ug/ml by Nanodrop;

Source:
Rabbit

Isotype:
IgG

Immunogen Catalog Number:
AG9593

GenBank Accession Number:
BC015623

GeneID (NCBI):
9961

UNIPROT ID:
Q14764

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 1.0-3.0 mg of total protein lysate
IHC 1:50-1:500
IF/ICC 1:50-1:500

Applications

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

Cited Applications:
WB, IHC, IF, IP

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, mouse lung tissue, rat lung tissue, SH-SY5Y cells

IP : mouse lung tissue,

IHC : human breast cancer tissue, human testis tissue, human skin tissue, human lung cancer tissue, human kidney tissue, human normal colon

IF/ICC : HepG2 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
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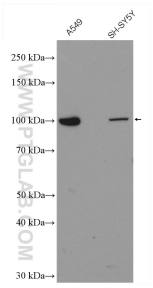
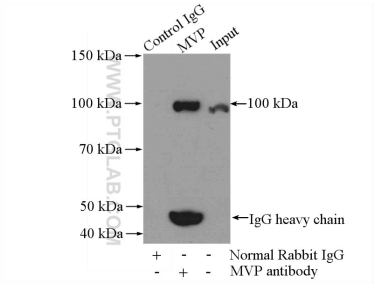
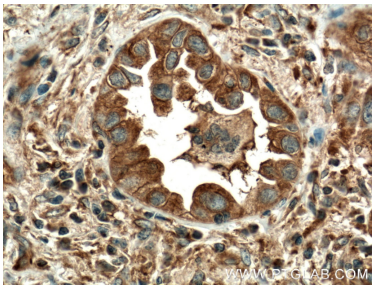
Selected Validation Data



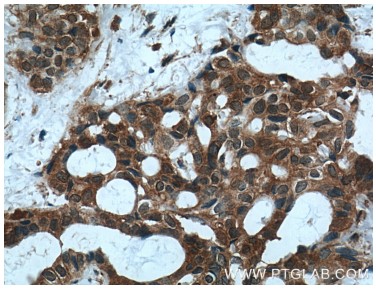
Various cells were subjected to SDS PAGE followed by western blot with 16478-1-AP (MVP/LRP antibody) at dilution of 1:1000 incubated at room temperature for 1.5 hours.



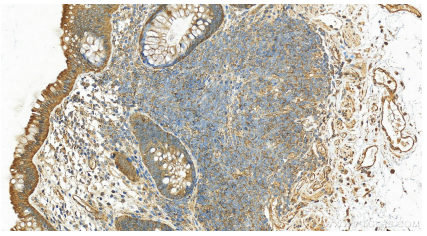
IP result of anti-MVP/LRP (IP:16478-1-AP, 4ug; Detection:16478-1-AP 1:500) with mouse lung tissue lysate 4000ug.



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).



Immunohistochemical analysis of paraffin-embedded human normal colon slide using 16478-1-AP (MVP/LRP antibody) at dilution of 1:200 (under 20x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).

Immunofluorescent analysis of (-20°C Ethanol) fixed HepG2 cells using MVP/LRP antibody (16478-1-AP) at dilution of 1:200 and CoraLite®488-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-2), CL594-phalloidin (red).