

For Research Use Only

# MAVS; VISA Polyclonal antibody

Catalog Number: 14341-1-AP

Featured Product

77 Publications



## Basic Information

### Catalog Number:

14341-1-AP

### Size:

150ul, Concentration: 800 ug/ml by Nanodrop;

### Source:

Rabbit

### Isotype:

IgG

### Immunogen Catalog Number:

AG5655

### GenBank Accession Number:

BC044952

### GeneID (NCBI):

57506

### UNIPROT ID:

Q7Z434

### Full Name:

mitochondrial antiviral signaling protein

### Calculated MW:

57 kDa

### Observed MW:

50-55 kDa, 70-75 kDa

### Purification Method:

Antigen affinity purification

### Recommended Dilutions:

WB: 1:2000-1:16000

IP: 0.5-4.0 ug for 1.0-3.0 mg of total protein lysate

IHC: 1:250-1:1000

IF/ICC: 1:50-1:500

## Applications

### Tested Applications:

WB, IHC, IF/ICC, IP, ELISA

### Cited Applications:

WB, IHC, IF, IP

### Species Specificity:

human

### Cited Species:

human, pig, monkey, duck

### Positive Controls:

WB: A431 cells, HeLa cells, HuH-7 cells, HepG2 cells

IP: HEK-293 cells,

IHC: human breast cancer tissue,

IF/ICC: HeLa cells,

**Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (\*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0**

## Background Information

Mitochondrial antiviral-signaling protein (MAVS) is also known as virus-induced-signaling adapter (VISA) or IFN- $\beta$  promoter stimulator protein 1 (IPS-1), it is widely involved and required for innate immune defense against viruses. MAVS, present in T cells, monocytes, epithelial cells and hepatocytes, contains CARD and transmembrane domains which are essential for antiviral functions. MAVS is able to interact with various cellular proteins including DDX58/RIG-I, IFIH1/MDA5, TRAF2, TRAF6, TMEM173/MLA, IFIT3 and etc. It can undergo phosphorylation on multiple sites and ubiquitination, which may together cause the molecular weight migrate to about 70 kDa despite the predicated 57 kDa.

## Notable Publications

Author	Pubmed ID	Journal	Application
Jiangang Zheng	34587973	BMC Vet Res	WB
Ya-Ling Yang	36174668	Eur J Pharmacol	WB
Lei-Ke Zhang	27605671	J Virol	WB

## Storage

### Storage:

Store at -20°C. Stable for one year after shipment.

### Storage Buffer:

PBS with 0.02% sodium azide and 50% glycerol, pH7.3

Aliquoting is unnecessary for -20°C storage

\*\*\* 20ul sizes contain 0.1%BSA

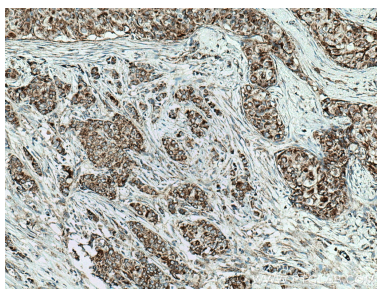
For technical support and original validation data for this product please contact:

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

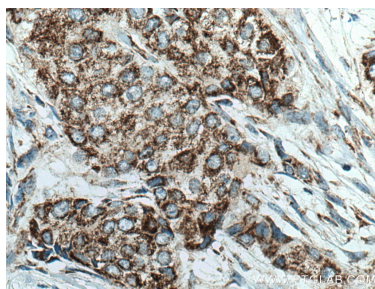
E: [proteintech@ptglab.com](mailto:proteintech@ptglab.com)  
W: [ptglab.com](http://ptglab.com)

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

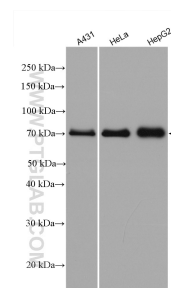
## Selected Validation Data



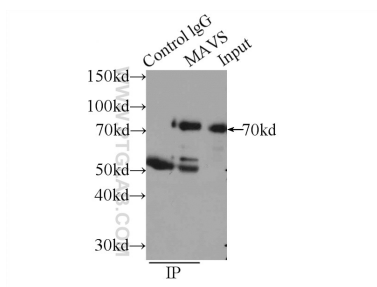
Immunohistochemical analysis of paraffin-embedded human breast cancer tissue slide using 14341-1-AP (MAVS; VISA antibody) at dilution of 1:500 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



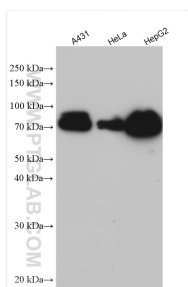
Immunohistochemical analysis of paraffin-embedded human breast cancer tissue slide using 14341-1-AP (MAVS; VISA antibody) at dilution of 1:500 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



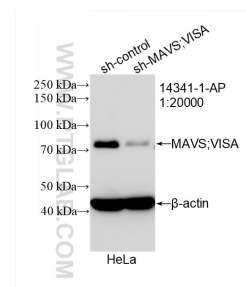
Various lysates were subjected to SDS PAGE followed by western blot with 14341-1-AP (MAVS; VISA antibody) at dilution of 1:8000 incubated at room temperature for 1.5 hours.



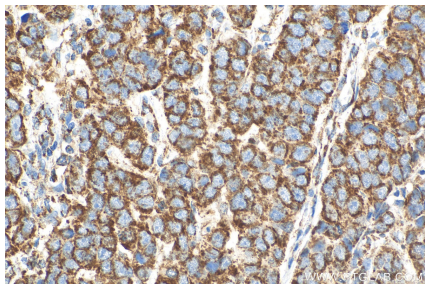
IP result of anti-MAVS; VISA (IP:14341-1-AP, 3ug; Detection:14341-1-AP 1:1000) with HEK-293 cells lysate 1700ug.



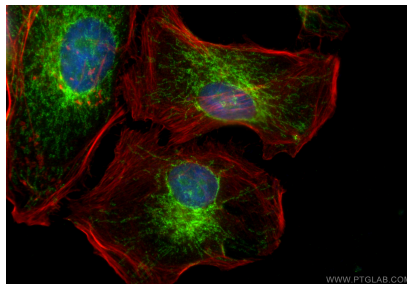
Various lysates were subjected to SDS PAGE followed by western blot with 14341-1-AP (MAVS; VISA antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours.



WB result of MAVS; VISA antibody (14341-1-AP; 1:20000; incubated at room temperature for 1.5 hours) with sh-Control and sh-MAVS; VISA transfected HeLa cells.



Immunohistochemical analysis of paraffin-embedded human breast cancer tissue slide using 14341-1-AP (MAVS; VISA antibody) at dilution of 1:1000 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (4% PFA) fixed HeLa cells using MAVS; VISA antibody (14341-1-AP) at dilution of 1:200 and CoraLite®488-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-2), CL594-phalloidin (red).