For Research Use Only

MAVS; VISA Polyclonal antibody

Catalog Number:14341-1-AP Featured Product 51 Publications

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Basic Information

Catalog Number:
14341-1-AP

Size:
150ul , Concentration: 800 μg/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 1:50-1:500

Applications

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

Cited Applications:
WB, IP, IF

Species Specificity:
human

Cited Species:
human, monkey, pig

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

IP : HEK-293 cells,

IHC : human breast cancer tissue, human skin tissue

IF : HeLa cells,

Background Information

Mitochondrial antiviral-signaling protein (MAVS) is also known as virus-induced-signaling adapter (VISA) or IFN-β 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/MITA, IFIT3 and etc. It can undergoe 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

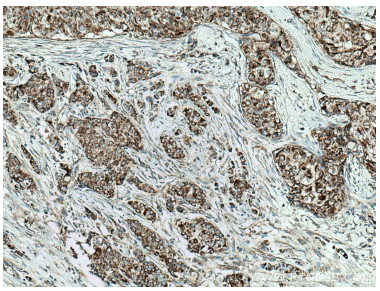
Storage

Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.
Aliquoting is unnecessary for -20°C storage

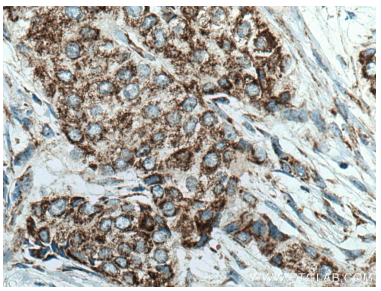
*** 20ul sizes contain 0.1% BSA

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

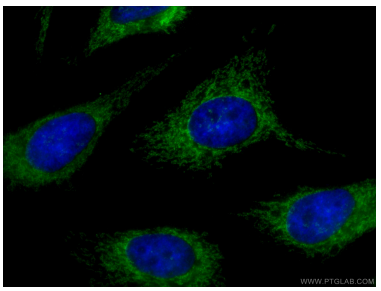
Selected Validation Data



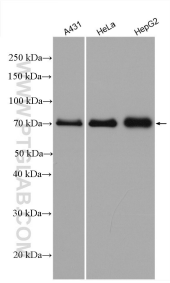
Immunohistochemical analysis of paraffin-embedded human breast cancer tissue slide using 14341-1-AP (MAVS; VISA antibody) at dilution of 1:500 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



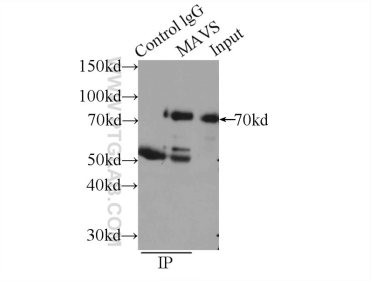
Immunohistochemical analysis of paraffin-embedded human breast cancer tissue slide using 14341-1-AP (MAVS; VISA antibody) at dilution of 1:500 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



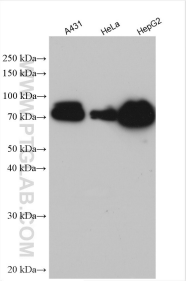
Immunofluorescent analysis of (4% PFA) fixed HeLa cells using 14341-1-AP (MAVS; VISA antibody), at dilution of 1:200 and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).



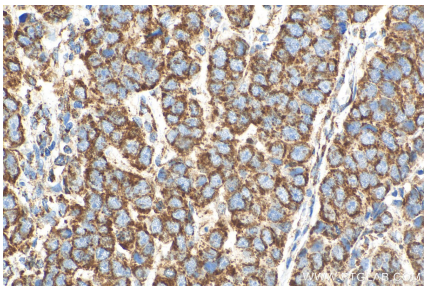
Various lysates were subjected to SDS PAGE followed by western blot with 14341-1-AP (MAVS; VISA antibody) at dilution of 1:8000 incubated at room temperature for 1.5 hours.



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.



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).