For Research Use Only

MAVS; VISA Recombinant monoclonal antibody

Catalog Number:81910-1-RR Featured Product 3 Publications

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Basic Information

Catalog Number:
81910-1-RR

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:
75 kDa

Purification Method:
Protein A purification

CloneNo.:
7F14

Recommended Dilutions:
WB: 1:5000-1:50000
IP: 0.5-4.0 ug for 1.0-3.0 mg of total protein lysate
IHC: 1:500-1:2000
IF/ICC: 1:500-1:2000

Applications

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

Cited Applications:
WB, IF, CoIP

Species Specificity:
human

Cited Species:
human, 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 : HeLa cells, HepG2 cells, A431 cells, A549 cells, MCF-7 cells

IP : HEK-293 cells,

IHC : human breast cancer tissue,

IF/ICC : 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
Tingjun Liu	42035472	Virulence	WB,IF
Wei Xu	42530913	Invest Ophthalmol Vis Sci	
Jiajia Zhang	42119254	Vet Microbiol	WB,IF,CoIP

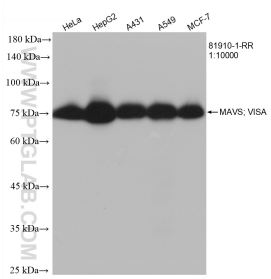
Storage

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

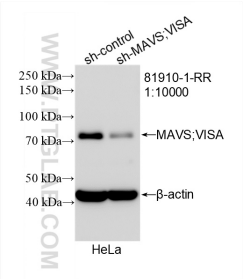
For technical support and original validation data for this product please contact:
T: 4006900926 E: Proteintech-CN@ptglab.com W: ptgcn.com

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

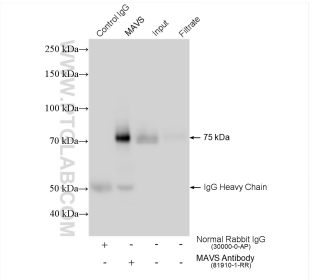
Selected Validation Data



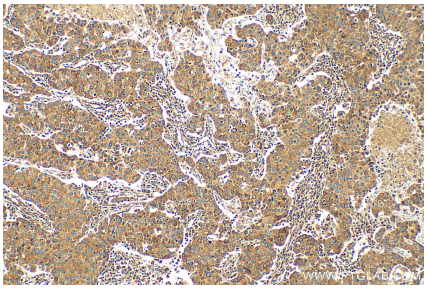
Various lysates were subjected to SDS PAGE followed by western blot with 81910-1-RR (MAVS; VISA antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours.



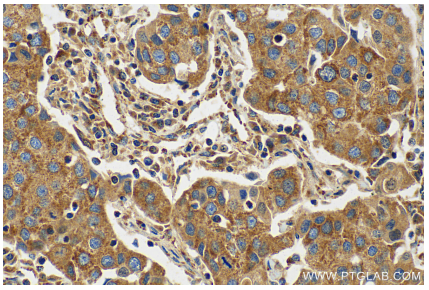
WB result of MAVS; VISA antibody (81910-1-RR; 1:10000; incubated at room temperature for 1.5 hours) with sh-Control and sh-MAVS; VISA transfected HeLa cells.



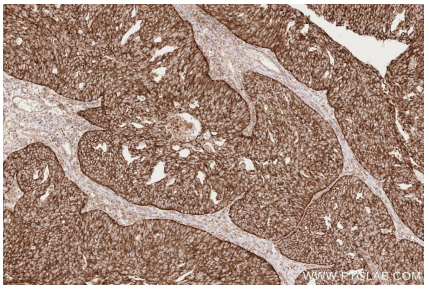
IP result of anti-MAVS; VISA (IP:81910-1-RR, 4ug; Detection:81910-1-RR 1:4000) with HEK-293 cells lysate 1480 ug.



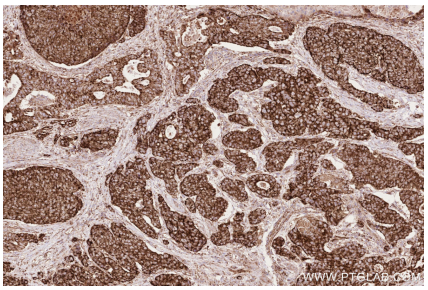
Immunohistochemical analysis of paraffin-embedded human breast cancer tissue slide using 81910-1-RR (MAVS; VISA antibody) at dilution of 1:1000 (under 10x lens). Heat mediated antigen retrieval with Sodium Citrate buffer (pH 6.0).



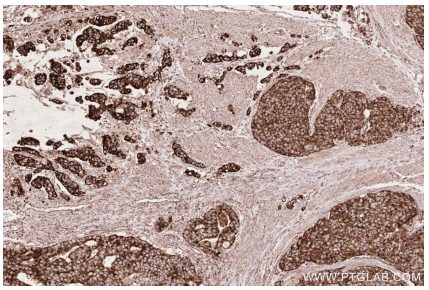
Immunohistochemical analysis of paraffin-embedded human breast cancer tissue slide using 81910-1-RR (MAVS; VISA antibody) at dilution of 1:1000 (under 40x lens). Heat mediated antigen retrieval with Sodium Citrate buffer (pH 6.0).



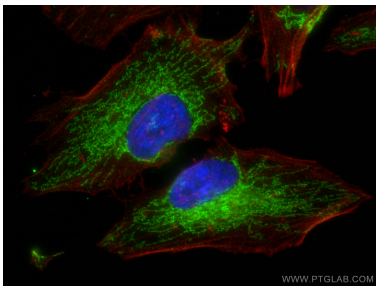
Immunohistochemical analysis of paraffin-embedded human ovary cancer tissue slide using 81910-1-RR (MAVS; VISA antibody) at dilution of 1:2000 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



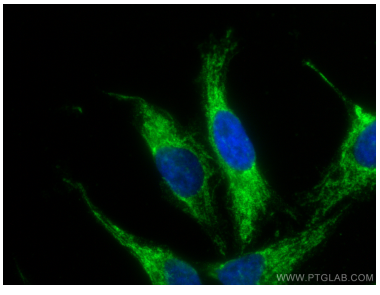
Immunohistochemical analysis of paraffin-embedded human stomach cancer tissue slide using 81910-1-RR (MAVS; VISA antibody) at dilution of 1:2000 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).

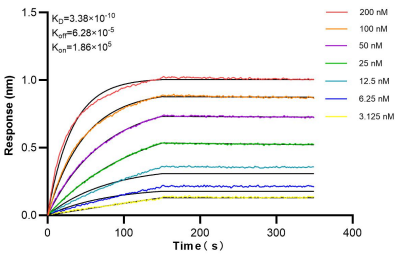


Immunohistochemical analysis of paraffin-embedded human stomach cancer tissue slide using 81910-1-RR (MAVS; VISA antibody) at dilution of 1:2000 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (4% PFA) fixed HeLa cells using MAVS; VISA antibody (81910-1-RR, Clone: 7F14) at dilution of 1:1000 and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L), CL594-Phalloidin (red).





Immunofluorescent analysis of (4% PFA) fixed HeLa cells using MAVS; VISA antibody (81910-1-RR, Clone: 7F14) at dilution of 1:200 and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).

Biolayer interferometry (BLI) kinetic assays of 81910-1-RR against Human MAVS; VISA were performed. The affinity constant is 0.338 nM.