

For Research Use Only

# MAVS; VISA Recombinant antibody

Catalog Number: 81910-1-RR **Featured Product**



## Basic Information

**Catalog Number:**

81910-1-RR

**Concentration:**

1000 ug/ml

**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

**Species Specificity:**

human

**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- $\beta$  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/MITA, 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.

## 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

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

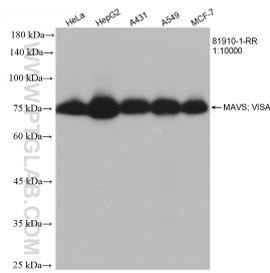
T: 4006900926

E: Proteintech-CN@ptglab.com

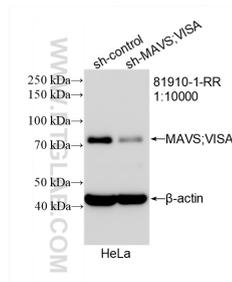
W: ptgcn.com

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

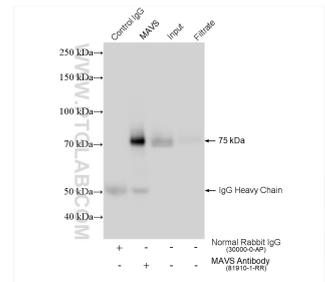
## Selected Validation Data



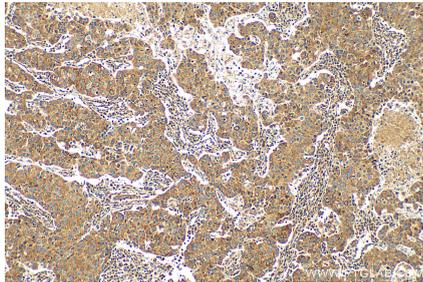
Various lysates were subjected to SDS PAGE followed by western blot with 81910-1-RR (MAVS; VISA antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours.



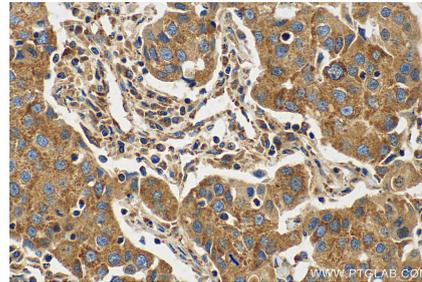
WB result of MAVS; VISA antibody (81910-1-RR; 1:10000; incubated at room temperature for 1.5 hours) with sh-Control and sh-MAVS; VISA transfected HeLa cells.



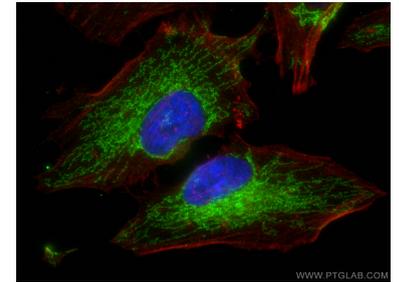
IP result of anti-MAVS; VISA (IP:81910-1-RR, 4ug; Detection:81910-1-RR 1:4000) with HEK-293 cells lysate 1480 ug.



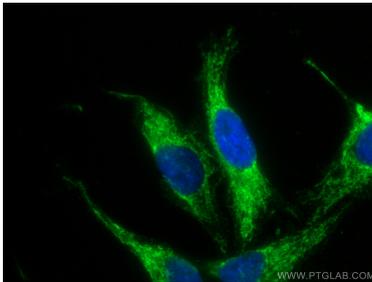
Immunohistochemical analysis of paraffin-embedded human breast cancer tissue slide using 81910-1-RR (MAVS; VISA antibody) at dilution of 1:1000 (under 10x lens). Heat mediated antigen retrieval with Sodium Citrate buffer (pH 6.0).



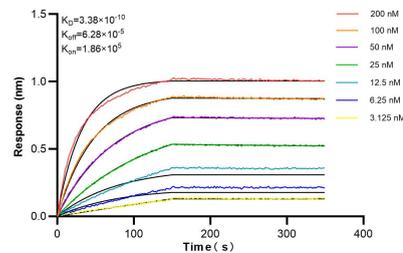
Immunohistochemical analysis of paraffin-embedded human breast cancer tissue slide using 81910-1-RR (MAVS; VISA antibody) at dilution of 1:1000 (under 40x lens). Heat mediated antigen retrieval with Sodium Citrate buffer (pH 6.0).



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.