For Research Use Only

MAVS; VISA Monoclonal antibody

Catalog Number:66911-1-Ig Featured Product 12 Publications

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Basic Information

Catalog Number:
66911-1-Ig

Size:
150ul , Concentration: 3121 ug/ml by Nanodrop and 900 ug/ml by Bradford method using BSA as the standard;

Source:
Mouse

Isotype:
IgG1

Immunogen Catalog Number:
AG5949

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:
Protein A purification

CloneNo.:
1A8E9

Recommended Dilutions:
WB 1:5000-1:50000
IHC 1:550-1:2200

Applications

Tested Applications:
WB, IHC, ELISA

Cited Applications:
WB, IF, IP, CoIP

Species Specificity:
human

Cited Species:
human, mouse, pig, monkey

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, HeLa cells, HepG2 cells, Jurkat cells, L02 cells, HEK-293 cells, THP-1cells

IHC : human liver cancer tissue,

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 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
Zhihai Zhou	33692778	Front Immunol	WB
Xiaohua Jie	35121645	J Immunother Cancer	WB
Yumei Han	33328314	J Virol	WB

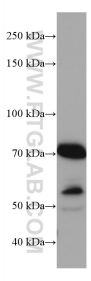
Storage

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

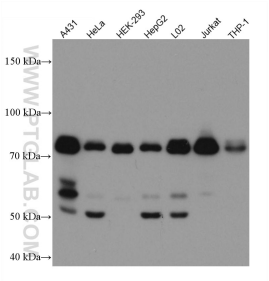
*** 20ul sizes contain 0.1% BSA

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

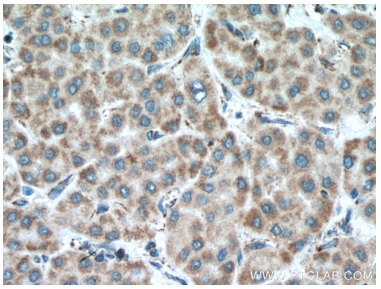
Selected Validation Data



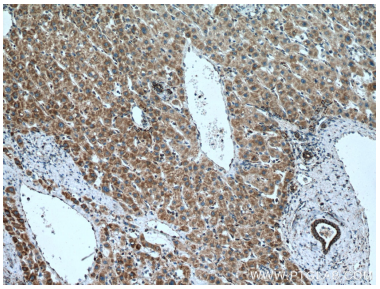
A431 cells were subjected to SDS PAGE followed by western blot with 66911-1-Ig (MAVS; VISA antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours.



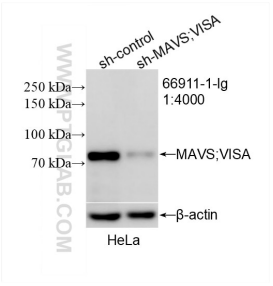
Various lysates were subjected to SDS PAGE followed by western blot with 66911-1-Ig (MAVS; VISA antibody) at dilution of 1:20000 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded human liver cancer tissue slide using 66911-1-Ig (MAVS; VISA antibody) at dilution of 1:1100 (under 40x lens. Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded human liver cancer tissue slide using 66911-1-Ig (MAVS; VISA antibody) at dilution of 1:1100 (under 10x lens. Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



WB result of MAVS; VISA antibody (66911-1-Ig; 1:4000; incubated at room temperature for 1.5 hours) with sh-Control and sh-MAVS; VISA transfected HeLa cells.