Rabbit MAVS Polyclonal Antibody | anti-MAVS antibody

Anti-MAVS Picoband Antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA124553	**Rabbit**	**HumanNo cross reactivity with other proteins.**	**Western Blot, Immunohistochemistry**

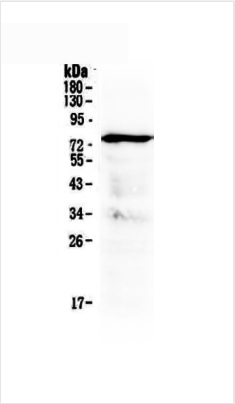
PRODUCT SYNONYMS

MAVS; Polyclonal Antibody; Anti-MAVS Picoband Antibody; Mitochondrial antiviral-signaling protein; CARD adapter inducing interferon beta; Cardif; Interferon beta promoter stimulator protein 1; IPS-1; Putative NF-kappa-B-activating protein 031N; Virus-induced-signaling adapter; VISA; IPS1; KIAA1271; anti-MAVS antibody

PRODUCT SPECIFICATIONS

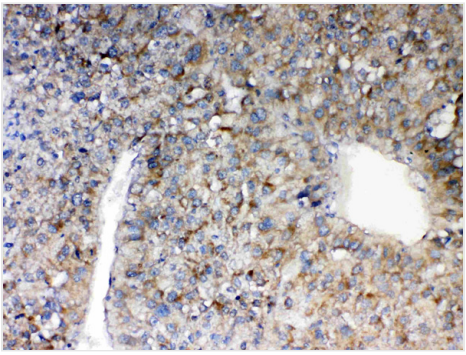
Host	Rabbit
Reactivity	Human No cross reactivity with other proteins.
Clonality	Polyclonal
Purity/Purification	Immunogen affinity purified
Form/Format	Lyophilized
Concentration	Add 0.2ml of distilled water will yield a concentration of 500ug/ml. (varies by lot)
Sequence Length	131
Applicable Applications for anti-MAVS antibody	WB (Western Blot), IHC (Immunohistochemistry)
Immunogen	E Coli-derived human MAVS recombinant protein (Position: L34-Q96). Human MAVS shares 72.6% and 69.4% amino acid (aa) sequence identity with mouse and rat MAVS, respectively.
Subcellular Localization	Mitochondrion outer membrane. Mitochondrion. Peroxisome.
Tissue Specificity	Present in T-cells, monocytes, epithelial cells and hepatocytes (at protein level). Ubiquitously expressed, with highest levels in heart, skeletal muscle, liver, placenta and peripheral blood leukocytes.
Reconstitution	Add 0.2ml of distilled water will yield a concentration of 500ug/ml.
Contents	Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na2HPO4, 0.05mg NaN3.
Preparation and Storage	Store at -20 degree C for one year. After reconstitution, at 4 degree C for one month. It can also be aliquotted and stored frozen at -20 degree C for a longer time. Avoid repeated freezing and thawing.

IMAGES



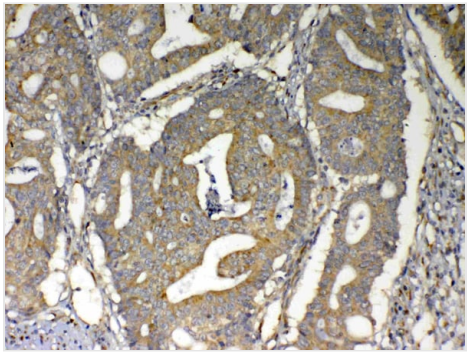
WB (Western Blot)

Figure 1. Western blot analysis of MAVS using anti-MAVS antibody (AAA124553).Electrophoresis was performed on a 5-20% SDS-PAGE gel at 70V (Stacking gel) / 90V (Resolving gel) for 2-3 hours. The sample well of each lane was loaded with 50ug of sample under reducing conditions.Lane 1: human placenta tissue lysate.After Electrophoresis, proteins were transferred to a Nitrocellulose membrane at 150mA for 50-90 minutes. Blocked the membrane with 5% Non-fat Milk/ TBS for 1.5 hour at RT. The membrane was incubated with rabbit anti-MAVS antigen affinity purified polyclonal antibody at 0.5ug/mL overnight at 4 degree C, then washed with TBS-0.1%Tween 3 times with 5 minutes each and probed with a goat anti-rabbit IgG-HRP secondary antibody at a dilution of 1:10000 for 1.5 hour at RT. The signal is developed using an Enhanced Chemiluminescent detection (ECL) kit with Tanon 5200 system. A specific band was detected for MAVS at approximately 75KD. The expected band size for MAVS is at 57KD.



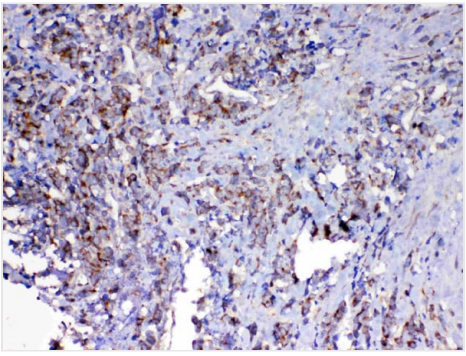
IHC (Immunohistochemistry)

Figure 3. IHC analysis of MAVS using anti-MAVS antibody (AAA124553).MAVS was detected in paraffin-embedded section of human liver cancer tissue. Heat mediated antigen retrieval was performed in citrate buffer (pH6, epitope retrieval solution) for 20 mins. The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 1ug/ml rabbit anti-MAVS Antibody (AAA124553) overnight at 4 degree C. Biotinylated goat anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37 degree C. The tissue section was developed using Strepavidin-Biotin-Complex (SABC) with DAB as the chromogen.



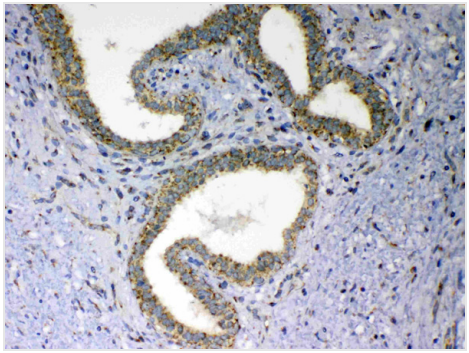
IHC (Immunohistochemisry)

Figure 2. IHC analysis of MAVS using anti-MAVS antibody (AAA124553).MAVS was detected in paraffin-embedded section of human intestinal cancer tissue. Heat mediated antigen retrieval was performed in citrate buffer (pH6, epitope retrieval solution) for 20 mins. The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 1ug/ml rabbit anti-MAVS Antibody (AAA124553) overnight at 4 degree C. Biotinylated goat anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37 degree C. The tissue section was developed using Strepavidin-Biotin-Complex (SABC) with DAB as the chromogen.



IHC (Immunohiostchemistry)

Figure 4. IHC analysis of MAVS using anti-MAVS antibody (AAA124553).MAVS was detected in paraffin-embedded section of human lung cancer tissue. Heat mediated antigen retrieval was performed in citrate buffer (pH6, epitope retrieval solution) for 20 mins. The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 1ug/ml rabbit anti-MAVS Antibody (AAA124553) overnight at 4 degree C. Biotinylated goat anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37 degree C. The tissue section was developed using Strepavidin-Biotin-Complex (SABC) with DAB as the chromogen.



IHC (Immunohistochemistry)
Figure 5. IHC analysis of MAVS using anti-MAVS antibody (AAA124553).MAVS was detected in paraffin-embedded section of human mammary cancer tissue. Heat mediated antigen retrieval was performed in citrate buffer (pH6, epitope retrieval solution) for 20 mins. The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 1ug/ml rabbit anti-MAVS Antibody (AAA124553) overnight at 4 degree C. Biotinylated goat anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37 degree C. The tissue section was developed using Strepavidin-Biotin-Complex (SABC) with DAB as the chromogen.

ADDITIONAL INFORMATION

Related Product Information for anti-MAVS antibody	Description: Mitochondrial antiviral-signaling protein (MAVS) is a protein that in humans is encoded by the MAVS gene. The protein is also known by the names VISA (virus-induced signaling adapter), IPS-1 and Cardif. This gene encodes an intermediary protein necessary in the virus-triggered beta interferon signaling pathways. It is required for activation of transcription factors which regulate expression of beta interferon and contributes to antiviral immunity. Protein Function: Required for innate immune defense against viruses. Acts downstream of DDX58/RIG-I and IFIH1/MDA5, which detect intracellular dsRNA produced during viral replication, to coordinate pathways leading to the activation of NF-kappa-B, IRF3 and IRF7, and to the subsequent induction of antiviral cytokines such as IFN-beta and RANTES (CCL5). Peroxisomal and mitochondrial MAVS act sequentially to create an antiviral cellular state. Upon viral infection, peroxisomal MAVS induces the rapid interferon- independent expression of defense factors that provide short-term protection, whereas mitochondrial MAVS activates an interferon- dependent signaling pathway with delayed kinetics, which amplifies and stabilizes the antiviral response. May activate the same pathways following detection of extracellular dsRNA by TLR3. May protect cells from apoptosis.
Product Categories/Family for anti-MAVS antibody	Signal Transduction; Signaling Pathway; Nuclear Signaling; NFKB Pathway; Epigenetics and Nuclear Signaling; Nuclear Signaling Pathways; Immunology; Immune System Diseases; antiviral Signaling; ChIP'ing Antibodies

NCBI AND UNIPROT INFORMATION

NCBI GI #	330688443
NCBI GeneID	57506
NCBI Accession #	NP_001193420.1
NCBI GenBank Nucleotide #	NM_001206491.1
UniProt Accession #	Q7Z434; Q2HWT5; Q3I0Y2; Q5T7I6; Q86VY7; Q9H1H3; Q9H4Y1; A8K6X0; B2BD33; B2BD34; F5H6C8; M1P2Z0
Molecular Weight	56528 MW
NCBI Official Full Name	mitochondrial antiviral-signaling protein isoform 2
NCBI Official Synonym Full Names	mitochondrial antiviral signaling protein
NCBI Official Symbol	MAVS
NCBI Official Synonym Symbols	IPS1; VISA; IPS-1; CARDIF
NCBI Protein Information	mitochondrial antiviral-signaling protein
UniProt Protein Name	Mitochondrial antiviral-signaling protein

UniProt Gene Name	**MAVS**
UniProt Synonym Gene Names	IPS1; KIAA1271; VISA; MAVS; Cardif; IPS-1; VISA

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: https://stage.aaabiotech.com/polyclonal/mavs-antibody-western-blot-immunohistochemistry-elisa/124553