

**Anti-MAVS Picoband Antibody**  
**Catalog # ABO12808****Specification**

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**Anti-MAVS Picoband Antibody - Product Information**

|                   |                               |
|-------------------|-------------------------------|
| Application       | <b>WB, IHC-P</b>              |
| Primary Accession | <a href="#"><u>Q7Z434</u></a> |
| Host              | <b>Rabbit</b>                 |
| Reactivity        | <b>Human</b>                  |
| Clonality         | <b>Polyclonal</b>             |
| Format            | <b>Lyophilized</b>            |

**Description**

Rabbit IgG polyclonal antibody for Mitochondrial antiviral-signaling protein(MAVS) detection.  
Tested with WB, IHC-P in Human.

**Reconstitution**

Add 0.2ml of distilled water will yield a concentration of 500ug/ml.

**Anti-MAVS Picoband Antibody - Additional Information**

**Gene ID** 57506

**Other Names**

Mitochondrial antiviral-signaling protein, MAVS, 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, MAVS, IPS1, KIAA1271, VISA

**Calculated MW**

56528 MW KDa

**Application Details**

Immunohistochemistry(Paraffin-embedded Section), 0.5-1 µg/ml, Human, By Heat<br> Western blot, 0.1-0.5 µg/ml, Human, <br> <br>

**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. .

**Contents**

Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na2HPO4, 0.05mg NaN3.

**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.

**Purification**

Immunogen affinity purified.

**Cross Reactivity**

No cross reactivity with other proteins.

**Storage**

**At -20°C for one year. After r°Constitution, at 4°C for one month. It°Can also be aliquotted and stored frozen at -20°C for a longer time. Avoid repeated freezing and thawing.**

**Anti-MAVS Picoband Antibody - Protein Information**

**Name** MAVS {ECO:0000303|PubMed:16125763, ECO:0000312|HGNC:HGNC:29233}

**Function**

Adapter required for innate immune defense against viruses (PubMed:<a href="http://www.uniprot.org/citations/16125763" target="\_blank">16125763</a>, PubMed:<a href="http://www.uniprot.org/citations/16127453" target="\_blank">16127453</a>, PubMed:<a href="http://www.uniprot.org/citations/16153868" target="\_blank">16153868</a>, PubMed:<a href="http://www.uniprot.org/citations/16177806" target="\_blank">16177806</a>, PubMed:<a href="http://www.uniprot.org/citations/19631370" target="\_blank">19631370</a>, PubMed:<a href="http://www.uniprot.org/citations/20127681" target="\_blank">20127681</a>, PubMed:<a href="http://www.uniprot.org/citations/20451243" target="\_blank">20451243</a>, PubMed:<a href="http://www.uniprot.org/citations/21170385" target="\_blank">21170385</a>, PubMed:<a href="http://www.uniprot.org/citations/23087404" target="\_blank">23087404</a>, PubMed:<a href="http://www.uniprot.org/citations/27992402" target="\_blank">27992402</a>, PubMed:<a href="http://www.uniprot.org/citations/33139700" target="\_blank">33139700</a>, PubMed:<a href="http://www.uniprot.org/citations/37582970" target="\_blank">37582970</a>). Acts downstream of DHX33, RIGI 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 IFNB and RANTES (CCL5) (PubMed:<a href="http://www.uniprot.org/citations/16125763" target="\_blank">16125763</a>, PubMed:<a href="http://www.uniprot.org/citations/16127453" target="\_blank">16127453</a>, PubMed:<a href="http://www.uniprot.org/citations/16153868" target="\_blank">16153868</a>, PubMed:<a href="http://www.uniprot.org/citations/16177806" target="\_blank">16177806</a>, PubMed:<a href="http://www.uniprot.org/citations/19631370" target="\_blank">19631370</a>, PubMed:<a href="http://www.uniprot.org/citations/20127681" target="\_blank">20127681</a>, PubMed:<a href="http://www.uniprot.org/citations/20451243" target="\_blank">20451243</a>, PubMed:<a href="http://www.uniprot.org/citations/20628368" target="\_blank">20628368</a>, PubMed:<a href="http://www.uniprot.org/citations/21170385" target="\_blank">21170385</a>, PubMed:<a href="http://www.uniprot.org/citations/23087404" target="\_blank">23087404</a>, PubMed:<a href="http://www.uniprot.org/citations/25636800" target="\_blank">25636800</a>, PubMed:<a href="http://www.uniprot.org/citations/27736772" target="\_blank">27736772</a>, PubMed:<a href="http://www.uniprot.org/citations/33110251" target="\_blank">33110251</a>). Peroxisomal and mitochondrial MAVS act sequentially to create an antiviral cellular state (PubMed:<a href="http://www.uniprot.org/citations/20451243" target="\_blank">20451243</a>). 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 (PubMed:<a href="http://www.uniprot.org/citations/20451243" target="\_blank">20451243</a>). May activate the same pathways following detection of extracellular dsRNA by TLR3 (PubMed:<a href="http://www.uniprot.org/citations/16153868" target="\_blank">16153868</a>). May protect cells from apoptosis (PubMed:<a href="http://www.uniprot.org/citations/16125763" target="\_blank">16125763</a>). Involved in

NLRP3 inflammasome activation by mediating NLRP3 recruitment to mitochondria (PubMed:<a href="http://www.uniprot.org/citations/23582325" target="\_blank">23582325</a>).

#### Cellular Location

Mitochondrion outer membrane; Single-pass membrane protein. Mitochondrion. Peroxisome

#### Tissue Location

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.

### Anti-MAVS Picoband Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

### Anti-MAVS Picoband Antibody - Images

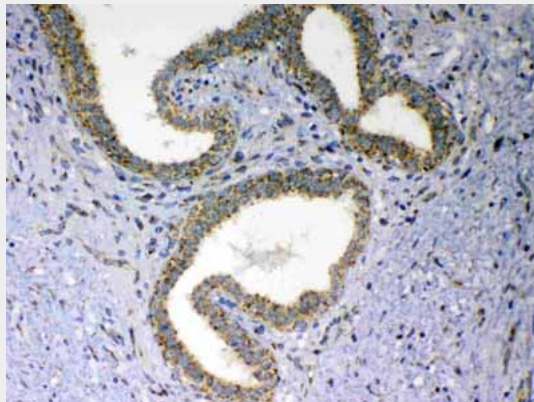
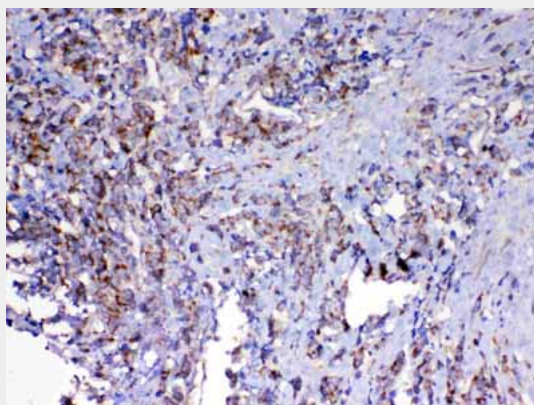
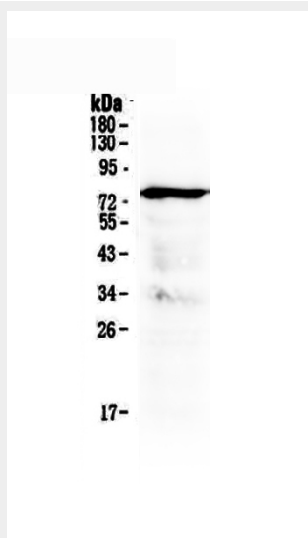
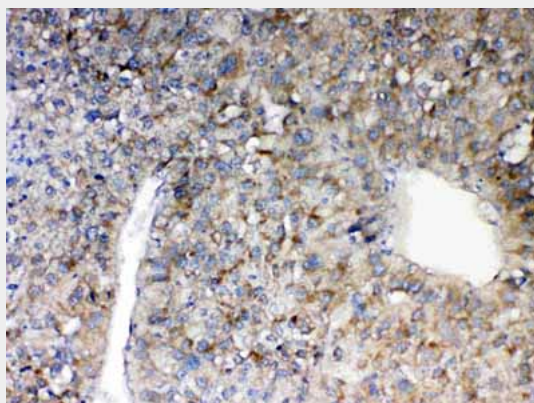
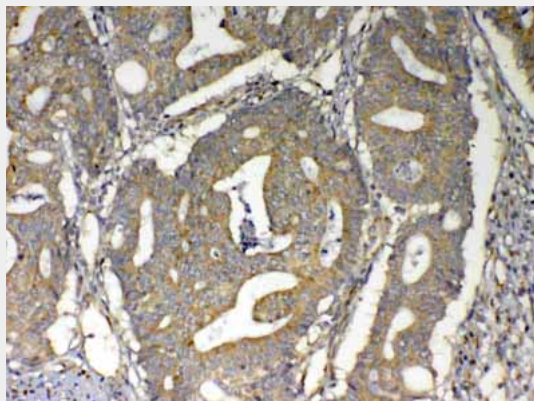


Figure 5. IHC analysis of MAVS using anti-MAVS antibody (ABO12808).





#### **Anti-MAVS Picoband Antibody - Background**

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.