# abcam

## Product datasheet

# Anti-MAVS antibody - N-terminal ab189303

**3 Images**

## Overview

| | |
|---|---|
| **Product name** | Anti-MAVS antibody - N-terminal |
| **Description** | Rabbit polyclonal to MAVS - N-terminal |
| **Host species** | Rabbit |
| **Tested applications** | **Suitable for:** IHC-P, ICC/IF, WB |
| **Species reactivity** | **Reacts with:** Mouse, Human |
| **Immunogen** | Synthetic peptide corresponding to Human MAVS (N terminal). 13 amino acid peptide. Database link: **Q7Z434** |
| **Positive control** | Human thymus tissue. Human brain cells. A20 cell lysate. |
| **General notes** | The Life Science industry has been in the grips of a reproducibility crisis for a number of years. Abcam is leading the way in addressing this with our range of recombinant monoclonal antibodies and knockout edited cell lines for gold-standard validation. Please check that this product meets your needs before purchasing. |
| | If you have any questions, special requirements or concerns, please send us an inquiry and/or contact our Support team ahead of purchase. Recommended alternatives for this product can be found below, along with publications, customer reviews and Q&As |

## Properties

| | |
|---|---|
| **Form** | Liquid |
| **Storage instructions** | Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C long term. Avoid freeze / thaw cycle. |
| **Storage buffer** | pH: 7.4<br>Preservative: 0.02% Sodium azide<br>Constituent: 99% PBS |
| **Purity** | Immunogen affinity purified |
| **Clonality** | Polyclonal |
| **Isotype** | IgG |

## Applications

**The Abpromise guarantee**

Our **Abpromise guarantee** covers the use of ab189303 in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

| Application | Abreviews | Notes |
|---|---|---|
| **IHC-P** | | Use a concentration of 5 µg/ml. Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol. |
| **ICC/IF** | | Use a concentration of 20 µg/ml. |
| **WB** | | Use a concentration of 0.5 - 2 µg/ml. Predicted molecular weight: 57 kDa. |

## Target

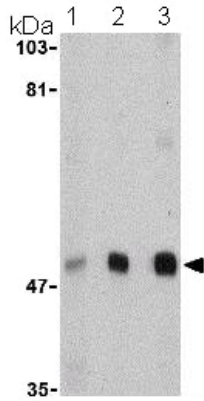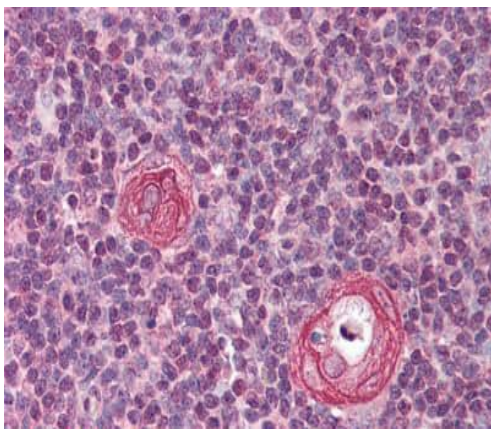| | |
|---|---|
| **Function** | Required for innate immune defense against viruses. Acts downstream of DDX58 and IFIH1/MDA5, which detect intracellular dsRNA produced during viral replication, to coordinate pathways leading to the activation of NF-kappa-B, IRF3 and IRF7, and to the subsequent induction of antiviral cytokines such as IFN-beta and RANTES (CCL5). May activate the same pathways following detection of extracellular dsRNA by TLR3. May protect cells from apoptosis. |
| **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. |
| **Sequence similarities** | Contains 1 CARD domain. |
| **Domain** | Both CARD and transmembrane domains are essential for antiviral function. The CARD domain is responsible for interaction with DDX58 and IFIH1. |
| **Post-translational modifications** | Ubiquitinated; undergoes 'Lys-48'-linked polyubiquitination catalyzed by ITCH; ITCH-dependent polyubiquitination is mediated by the interaction with PCBP2 and leads to MAVS proteasomal degradation. |
| **Cellular localization** | Mitochondrion outer membrane. |

## Images

Lane 1 : Anti-MAVS antibody - N-terminal (ab189303) at 0.5 µg/ml

Lane 2 : Anti-MAVS antibody - N-terminal (ab189303) at 1 µg/ml

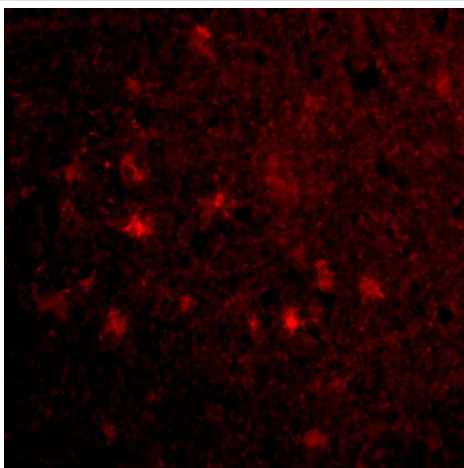Lane 3 : Anti-MAVS antibody - N-terminal (ab189303) at 2 µg/ml

**All lanes :** A20 cell lysate

**Predicted band size:** 57 kDa

Western blot - Anti-MAVS antibody - N-terminal (ab189303)



Immunohistochemical analysis of formalin-fixed, paraffin-embedded human thymus tissue, labeling MAVS with ab189303 at 5 µg/ml.

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-MAVS antibody - N-terminal (ab189303)



Immunofluorescent analysis of human brain cells, labeling MAVS with ab189303 at 20 µg/ml.

Immunocytochemistry/ Immunofluorescence - Anti-MAVS antibody - N-terminal (ab189303)

**Please note:** All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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