

#4983 Store at -20°C

MAVS Antibody



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Applications: WB, IP, IF-F, IF-IC	Reactivity: M R	Sensitivity: Endogenous	MW (kDa): 75, 52	Source: Rabbit	UniProt ID: #Q7Z434	Entrez-Gene Id: 57506
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Product Usage Information

Application

Western Blotting
Immunoprecipitation
Immunofluorescence (Frozen)
Immunofluorescence (Immunocytochemistry)

Dilution

1:1000
1:50
1:50
1:50

Storage

Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 µg/ml BSA and 50% glycerol. Store at –20°C. Do not aliquot the antibody.

Specificity / Sensitivity

MAVS Antibody detects endogenous levels of total MAVS/VISA protein. The bands detected at 52 and 75 kDa correlate with those described by Seth et al. (2005).

Source / Purification

Polyclonal antibodies are produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Cys140 of mouse MAVS/VISA. Antibodies were purified by affinity chromatography.

Background

The mitochondrial antiviral signaling protein (MAVS, VISA) contributes to innate immunity by triggering IRF-3 and NF-κB activation in response to viral infection, leading to the production of IFN-β (1). The MAVS protein contains an N-terminal CARD domain and a C-terminal mitochondrial transmembrane domain. The MAVS adaptor protein plays a critical and specific role in viral defenses (2). MAVS acts downstream of the RIG-I RNA helicase and viral RNA sensor, leading to the recruitment of IKKε, TRIF, and TRAF6 (3,4). Some viruses have evolved strategies to circumvent these innate defenses by using proteases that cleave MAVS to prevent its mitochondrial localization (5,6).

Background References

1. Seth, R.B. et al. (2005) *Cell* 122, 669-682.
2. Sun, Q. et al. (2006) *Immunity* 24, 633-642.
3. Xu, L.G. et al. (2005) *Mol. Cell* 19, 727-740.
4. Yoneyama, M. et al. (2004) *Nat. Immunol.* 5, 730-737.
5. Lin, R. et al. (2006) *J. Virol.* 80, 6072-6083.
6. Chen, Z. et al. (2007) *J. Virol.* 81, 964-976.

Species Reactivity

Species reactivity is determined by testing in at least one approved application (e.g., western blot).

Western Blot Buffer

IMPORTANT: For western blots, incubate membrane with diluted primary antibody in 5% w/v BSA, 1X TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.

Applications Key

WB: Western Blotting **IP:** Immunoprecipitation **IF-F:** Immunofluorescence (Frozen)
IF-IC: Immunofluorescence (Immunocytochemistry)

Cross-Reactivity Key

H: human **M:** mouse **R:** rat **Hm:** hamster **Mk:** monkey **Vir:** virus **Mi:** mink **C:** chicken **Dm:** D. melanogaster
X: Xenopus **Z:** zebrafish **B:** bovine **Dg:** dog **Pg:** pig **Sc:** S. cerevisiae **Ce:** C. elegans **Hr:** horse
GP: Guinea Pig **Rab:** rabbit **All:** all species expected

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