

Store at
-20C
#24930**MAVS (D5A9E) Rabbit mAb**

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Applications: W, IP, IF-IC, FC-FP	Reactivity: H	Sensitivity: Endogenous	MW (kDa): 75, 52	Source/Isotype: Rabbit IgG	UniProt ID: #Q7Z434	Entrez-Gene Id: 57506
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Product Usage Information**Application**

Western Blotting
Immunoprecipitation
Immunofluorescence (Immunocytochemistry)
Flow Cytometry (Fixed/Permeabilized)

Dilution

1:1000
1:50
1:100 - 1:400
1:200 - 1:800

Storage

Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 µg/ml BSA, 50% glycerol and less than 0.02% sodium azide. Store at -20°C. Do not aliquot the antibody.

For a carrier free (BSA and azide free) version of this product see product #67838.

Specificity/Sensitivity

MAVS (D5A9E) Rabbit mAb recognizes endogenous levels of total MAVS protein.

Source / Purification

Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Leu202 of human MAVS protein.

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

W: Western Blotting **IP:** Immunoprecipitation **IF-IC:** Immunofluorescence (Immunocytochemistry) **FC-FP:** Flow Cytometry (Fixed/Permeabilized)

Cross-Reactivity Key

H: Human

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