

MDA5 Rabbit pAb

Catalog No.: A13645SP

5 Publications

Basic Information

Observed MW

135 kDa

Calculated MW

25 kDa/117 kDa

Category

Primary antibody

Applications

WB, IP, IF-P, ELISA

Cross-Reactivity

Human, Mouse

Background

IFIH1 encodes MDA5 which is an intracellular sensor of viral RNA that triggers the innate immune response. Sensing RNA length and secondary structure, MDA5 binds dsRNA oligonucleotides with a modified DExD/H-box helicase core and a C-terminal domain, thus leading to a proinflammatory response that includes interferons. It has been shown that Coronaviruses (CoVs) as well as various other virus families, are capable of evading the MDA5-dependent interferon response, thus impeding the activation of the innate immune response to infection. MDA5 has also been shown to play an important role in enhancing natural killer cell function in malaria infection. In addition to its protective role in antiviral responses, MDA5 has been implicated in autoimmune and autoinflammatory diseases such as type 1 diabetes, systemic lupus erythematosus, and Aicardi-Goutieres syndrome

Recommended Dilutions

WB 1:2000 - 1:5000**IP** 0.5 µg - 4 µg antibody for
900 µg - 1100 µg extracts of
whole cells**IF-P** 1:200 - 1:400**ELISA** Recommended starting
concentration is 1 µg/mL.
Please optimize the
concentration based on your
specific assay
requirements. For high-ratio
antibody dilutions
(≥1:10000)

Contact

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Immunogen Information

Gene ID

64135

Swiss Prot

Q9BYX4

Immunogen

This information is considered to be commercially sensitive.

Synonyms

AGS7; Hlcd; MDA5; IMD95; MDA-5; RLR-2; IDDM19; SGMRT1; IFIH1

Product Information

Source

Rabbit

Isotype

IgG

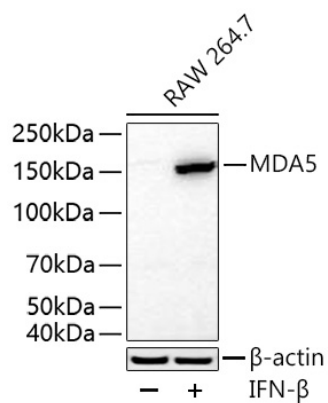
Purification

Affinity purification

Storage

Store at -20°C

Validation Data



Western blot analysis of lysates from RAW 264.7 cells using MDA5 Rabbit pAb (A13645SP) at 1:5000 dilution incubated overnight at 4°C. RAW 264.7 cells were treated with IFN-β (200 ng/mL) at 37°C for 24 hours.

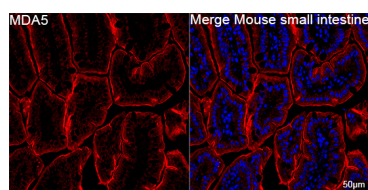
Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution.

Lysates/proteins: 30 µg per lane.

Blocking buffer: 3% nonfat dry milk in TBST.

Detection: ECL Basic Kit (RM00020).

Exposure time: 60 s.



Confocal imaging of paraffin-embedded Mouse small intestine tissue using MDA5 Rabbit pAb (A13645SP, dilution 1:200) followed by a further incubation with Cy3-conjugated Goat anti-Rabbit IgG (H+L) (AS007, dilution 1:500) (Red). DAPI was used for nuclear staining (Blue). High pressure antigen retrieval performed with 0.01M Citrate Buffer (pH 6.0) prior to IF staining. Objective: 40x.