MDA5 Rabbit pAb

Catalog NO.: A13645SP **5 Publications**

Basic Information

Observed MW
135 kDa

Calculated MW
25 kDa/117 kDa

Category
Polyclonal Antibodies

Applications
WB, IP, IF-P, ELISA

Cross-Reactivity
Human, Mouse

Conjugation
Unconjugated

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)

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

Contact

Product Information

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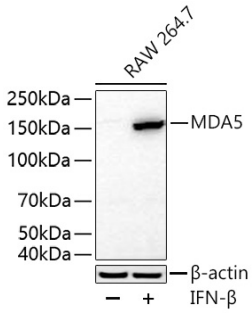
Source
Rabbit

Isotype
IgG

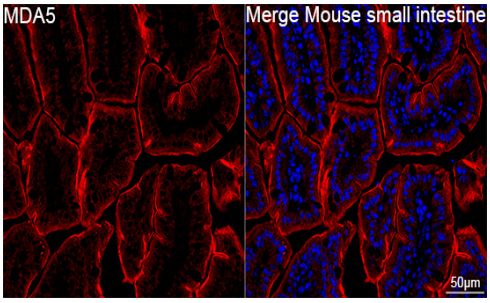
Purification
Affinity purification

Storage
Store at -20°C. Avoid freeze / thaw cycles.
Buffer: PBS, pH 7.3, containing 50% glycerol. Preserved with Proclin300 or sodium azide. May contain 0.05% BSA as specified on the Certificate of Analysis.

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.

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