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MDA5 Rabbit mAb

Catalog No.: A28203 Recombinant

Basic Information

Observed MW
135 kDa

Calculated MW
117 kDa

Category
Primary antibody

Applications
WB,IP,ELISA

Cross-Reactivity
Human

CloneNo number
ARC73885

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	1:5000 - 1:10000
IP	0.5μg-4μg antibody for 900μg-1100μg extracts of whole cells
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)，a sequential dilution method is strongly recommended to ensure measurement accuracy.

Immunogen Information

Gene ID
64135

Swiss Prot
Q9BYX4

Immunogen
Recombinant protein (or fragment).This information is considered to be commercially sensitive.

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

Product Information

Source
Rabbit

Isotype
IgG

Purification
Affinity purification

Storage
Store at -20℃. Avoid freeze / thaw cycles.
Buffer: PBS with 0.09% Sodium azide,0.05% BSA,50% glycerol,pH7.3.

Contact

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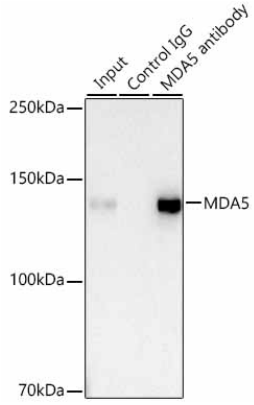
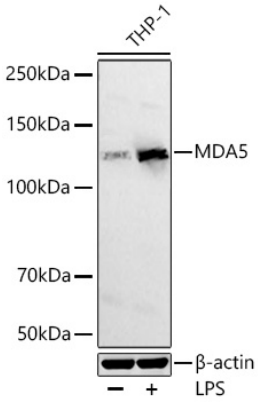
Validation Data



Immunoprecipitation of MDA5 from 1000 µg extracts of Daudi cells was performed using 2 µg of MDA5 Rabbit mAb (A28203). Rabbit Control IgG (AC005) was used to precipitate the Control IgG sample. IP samples were eluted with 1x reducing Laemmli Buffer. The Input lane represents 10% of the total input. Western blot analysis of immunoprecipitates was conducted using MDA5 Rabbit mAb (A28203) at a dilution of 1:6000.



Western blot analysis of lysates from THP-1 cells using MDA5 Rabbit mAb (A28203) at 1:10000 dilution incubated overnight at 4℃. THP-1 cells were treated with LPS (1 µg/ml) at 37℃ for 8 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: 90 s.