

MDA5 Rabbit pAb

CatalogNo: YT2687

Key Features

Host Species

- Rabbit

Reactivity

- Human, Mouse

Applications

- WB, IHC, IF, ELISA

MW

- 120kD (Observed)

Isotype

- IgG

Recommended Dilution Ratios

WB 1:500-1:2000**IHC 1:100-1:300****ELISA 1:40000****IF 1:50-200**

Storage

Storage*

-15°C to -25°C/1 year (Do not lower than -25°C)

Formulation

Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.

Basic Information

Clonality

Polyclonal

Immunogen Information

Immunogen

The antiserum was produced against synthesized peptide derived from human IFIH1. AA range: 976-1025

Specificity

MDA5 Polyclonal Antibody detects endogenous levels of MDA5 protein.

Target Information

Gene name	IFIH1		
Protein Name	Interferon-induced helicase C domain-containing protein 1		
	Organism	Gene ID	UniProt ID
	Human	64135;	Q9BYX4;
	Mouse	71586;	Q8R5F7;
Cellular Localization	Cytoplasm . Nucleus . Mitochondrion . Upon viral RNA stimulation and ISGylation, translocates from cytosol to mitochondrion. May be found in the nucleus, during apoptosis.		
Tissue specificity	Widely expressed, at a low level. Expression is detected at slightly highest levels in placenta, pancreas and spleen and at barely levels in detectable brain, testis and lung.		
Function	<p>Disease:Genetic variation in IFIH1 is associated with insulin-dependent diabetes mellitus 19 (IDDM19) [MIM:610155].,Function:RNA helicase that, through its ATP-dependent unwinding of RNA, may function to promote message degradation by specific RNases. Seems to have growth suppressive properties. Involved in innate immune defense against viruses. Upon interaction with intracellular dsRNA produced during viral replication, triggers a transduction cascade involving MAVS/IPS1, which results in the activation of NF-kappa-B, IRF3 and IRF7 and the induction of the expression of antiviral cytokines such as IFN-beta and RANTES (CCL5). ATPase activity is specifically induced by dsRNA. Essential for the production of interferons in response to picornaviruses.,induction:By IFN-beta and TNF-alpha.,miscellaneous:In HIV-1 infected HeLa-CD4 cells, overexpression of IFIH1 results in a great increase in the level of secreted viral p24 protein.,PTM:During apoptosis, processed into 3 cleavage products. The helicase-containing fragment, once liberated from the CARD domains, translocate from the cytoplasm to the nucleus. The processed protein significantly sensitizes cells to DNA degradation.,sequence Caution:Contaminating sequence. Potential poly-A sequence.,similarity:Belongs to the helicase family.,similarity:Contains 1 helicase ATP-binding domain.,similarity:Contains 1 helicase C-terminal domain.,similarity:Contains 2 CARD domains.,subcellular location:May be found in the nucleus, during apoptosis.,subunit:Interacts with MAVS. Interacts with V protein of Simian virus 5, Human parainfluenza virus 2, Mumps virus, Sendai virus and Hendra virus. Binding to paramyxoviruses V proteins prevents IFN-beta induction, and the further establishment of an antiviral state.,tissue specificity:Widely expressed, at a low level. Expression is detected at slightly highest levels in placenta, pancreas and spleen and at barely levels in detectable brain, testis and lung.,</p>		

Validation Data

Contact information

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