Datasheet for ABIN500264

anti-IFIH1 antibody (C-Term)

2 Images

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Overview

Quantity:	0.1 mg
Target:	IFIH1
Binding Specificity:	C-Term
Reactivity:	Human, Mouse
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This IFIH1 antibody is un-conjugated
Application:	Western Blotting (WB), Immunofluorescence (IF), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p)), Enzyme Immunoassay (EIA)

Product Details

Immunogen:	A 16 amino acid peptide from near the carboxy terminus of Human MDA5.
Isotype:	IgG
Specificity:	This antibody detects Helicard at C-term.
Cross-Reactivity (Details):	Species reactivity (tested):Human, Mouse.
Purification:	Peptide Affinity Chromatography

Target Details

Target:	IFIH1
Alternative Name:	Helicard (IFIH1 Products)

Target Details

Background:	The innate immune system detects viral infection by recognizing various viral components and triggers antiviral responses. Like the toll-like receptor 3 (TLR3), the melanoma differentiation-associated protein 5 (MDA5) recognizes double-stranded (ds) RNA, a molecular pattern associated with viral infection. MDA5, a member of the DEAD/DEAH-box RNA helicase family, consists of an amino-terminal caspase recruitment domain (CARD) and a carboxyl-terminal RNA helicase domain similar to that of the related protein RIG-1. When stimulated by dsRNA, MDA5 recruits the adaptor protein VISA and ultimately causes the activation of IRF-3 and NF-kB. MDA5 and RIG-1 recognize different types of dsRNA, with MDA5 recognizing poly (I:C). MDA5-null mice were highly susceptible to infection with picornaviruses, which possess such sequences, demonstrating the importance of MDA5 in innate immunity.Synonyms: Helicase with 2 CARD domains, IFIH1, Interferon-induced helicase C domain-containing protein 1, MDA5, Melanoma differentiation-associated protein 5, Murabutide down-regulated protein, RH116, RNA helicase-DEAD box protein 116
Gene ID:	64135
NCBI Accession:	NP_071451
UniProt:	Q9BYX4
Pathways:	Activation of Innate immune Response

Application Details

Application Notes:	ELISA. Western blot: 1 - 2 µg/mL. Immunohistochemistry on paraffin sections. Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.
Restrictions:	For Research Use only

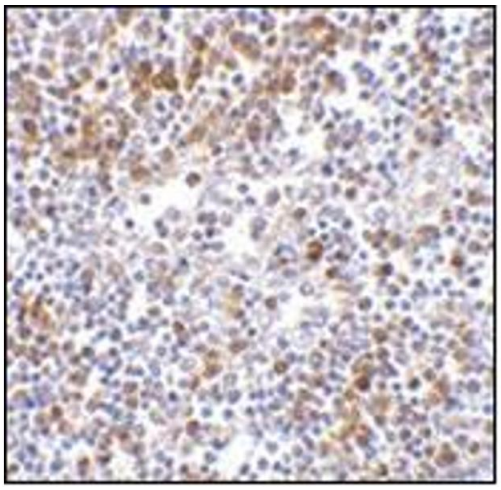
Handling

Concentration:	1.0 mg/mL
Buffer:	PBS, 0.02 % Sodium Azide
Preservative:	Sodium azide
Precaution of Use:	This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Handling Advice:	Avoid repeated freezing and thawing.

Handling

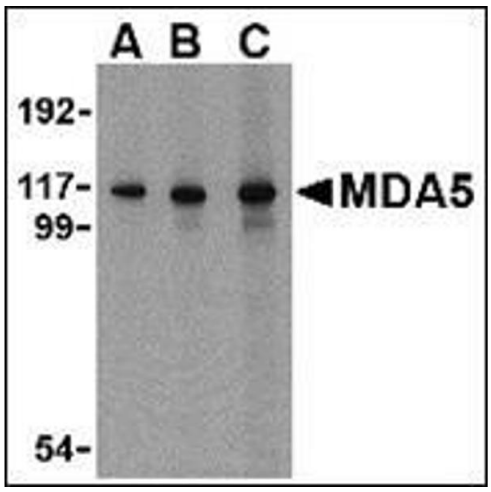
Storage:	4 °C/-20 °C
Storage Comment:	Store the antibody undiluted at 2-8 °C for one month or (in aliquots) at -20 °C for longer.

Images



Immunohistochemistry (Paraffin-embedded Sections)

Image 1. Immunohistochemistry of MDA5 in human lymph node tissue with this product at 5 µg/ml.



Western Blotting

Image 2. Western blot analysis of MDA5 in Daudi cell lysate with AP30553PU-N MDA5 antibody at 1 µg/ml (A), 2 µg/ml (B) and 4 µg/ml (C).