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anti-IFIH1 antibody (Middle Region)



Images



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Quantity:	100 μL
Target:	IFIH1
Binding Specificity:	Middle Region
Reactivity:	Human, Mouse, Rat, Pig, Cow, Horse
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This IFIH1 antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (IHC)

Product Details

Immunogen:	The immunogen is a synthetic peptide directed towards the middle region of human IFIH1
Sequence:	QINDTIRMID AYTHLETFYN EEKDKKFAVI EDDSDEGGDD EYCDGDEDED
Predicted Reactivity:	Cow: 85%, Horse: 85%, Human: 100%, Mouse: 77%, Pig: 77%, Rat: 82%
Characteristics:	This is a rabbit polyclonal antibody against IFIH1. It was validated on Western Blot using a cell lysate as a positive control.
Purification:	Affinity Purified

Target Details

Target:	IFIH1
Alternative Name:	IFIH1 (IFIH1 Products)

Background:

DEAD box proteins, characterized by the conserved motif Asp-Glu-Ala-Asp (DEAD), are putative RNA helicases. They are implicated in a number of cellular processes involving alteration of RNA secondary structure such as translation initiation, nuclear and mitochondrial splicing, and ribosome and spliceosome assembly. Based on their distribution patterns, some members of this family are believed to be involved in embryogenesis, spermatogenesis, and cellular growth and division. IFIH1 is a DEAD box protein that is upregulated in response to treatment with betainterferon (IFNB) and a protein kinase C-activating compound, mezerein (MEZ). Irreversible reprogramming of melanomas can be achieved by treatment with both these agents, treatment with either agent alone only achieves reversible differentiation.DEAD box proteins, characterized by the conserved motif Asp-Glu-Ala-Asp (DEAD), are putative RNA helicases. They are implicated in a number of cellular processes involving alteration of RNA secondary structure such as translation initiation, nuclear and mitochondrial splicing, and ribosome and spliceosome assembly. Based on their distribution patterns, some members of this family are believed to be involved in embryogenesis, spermatogenesis, and cellular growth and division. This gene encodes a DEAD box protein that is upregulated in response to treatment with betainterferon (IFNB) and a protein kinase C-activating compound, mezerein (MEZ). Irreversible reprogramming of melanomas can be achieved by treatment with both these agents, treatment with either agent alone only achieves reversible differentiation. Publication Note: This RefSeq record includes a subset of the publications that are available for this gene. Please see the Entrez Gene record to access additional publications.

Alias Symbols: Hlcd, IDDM19, MDA-5, MDA5, MGC133047

Protein Interaction Partner: USP21, USP3, UBC, NLRC5, APP, TSPAN6, MAVS, PCBP2, PIAS2, SUMO1, IDE.

Protein Size: 1025

Molecular Weight: 117 kDa

Gene ID: 64135

NCBI Accession: NM_022168, NP_071451

UniProt: Q9BYX4

Pathways: Activation of Innate immune Response

Application Details

Application Notes: Optimal working dilutions should be determined experimentally by the investigator.

Comment: Antigen size: 1025 AA

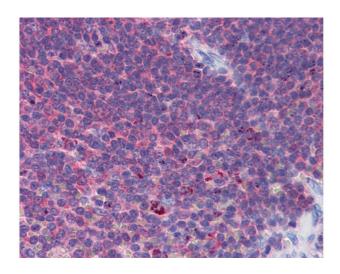
Application Details

Restrictions:	For Research Use only

Handling

Format:	Liquid
Concentration:	Lot specific
Buffer:	Liquid. Purified antibody supplied in 1x PBS buffer with 0.09 % (w/v) sodium azide and 2 % sucrose.
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 freeze-thaw cycles.
Storage:	-20 °C
Storage Comment:	For short term use, store at 2-8°C up to 1 week. For long term storage, store at -20°C in small aliquots to prevent freeze-thaw cycles.

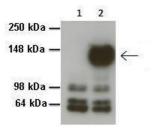
Images



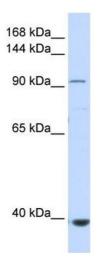
Immunohistochemistry

Image 1. IHC Information: Paraffin embedded spleen tissue, tested with an antibody dilution of 5 ug/ml.





See Immunoblot 2 Data and customer Feedback for more Information



Western Blotting

Image 2. Lanes: 1: 20ug HEK293T no transfection, 2: 20ug HEK293T 3Flag-MDA5/IFIH1 Primary Antibody Dilution: 1:1000 Secondary Antibody: Anti-rabbit HRP Secondary Antibody Dilution: 1:1000 Gene Name: IFIH1 Submitted by: Dr. Safia Deddouche, London Research Institute IFIH1 is supported by BioGPS gene expression data to be expressed in HEK293T

Western Blotting

Image 3. WB Suggested Anti-IFIH1 Antibody Titration: 0.2-1 ug/ml ELISA Titer: 1:62500 Positive Control: Human Muscle