

Product Name: KD-Validated IFIH1 Mouse Monoclonal Antibody**Catalog #: KVA01907**

For research use only.

Summary

Description	KO&KD-Validated antibody
Host	Mouse
Application	WB
Reactivity	Human
Conjugation	Unconjugated
Modification	Unmodified
Isotype	Mouse IgG2a
Clonality	Mouse mAb
Form	Liquid
Storage	Aliquot and store at -20°C (valid for 12 months). Avoid freeze/thaw cycles.
Shipping	Ice bags
Buffer	Supplied in PBS (pH 7.4) containing 50% glycerol, and 0.02% sodium azide.
Purification	Affinity purification

Application

Dilution Ratio	WB 1:1,000-1:5,000
Molecular Weight	Calculated MW: 116.7kDa

Antigen Information

Gene Name	IFIH1 IFIH1; Interferon Induced With Helicase C Domain 1; MDA-5; MDA5; Helicard; IDDM19; Hlcd; Interferon-Induced Helicase C Domain-Containing Protein 1; Clinically Amyopathic Dermatomyositis Autoantigen 140 kDa; Melanoma Differentiation-Associated Protein 5;
Alternative Names	Melanoma Differentiation-Associated Gene 5; RNA Helicase-DEAD Box Protein 116; Murabutide Down-Regulated Protein; Helicase With 2 CARD Domain; RIG-I-Like Receptor 2; CADM-140 Autoantigen; RLR-2; Interferon-Induced With Helicase C Domain Protein 1; DEAD/H (Asp-Glu-Ala-Asp/His) Box Polypeptide; EC 3.6.4.13; SGMRT1; IMD95; RH116; AGS7
Gene ID	64135.0
SwissProt ID	Q9BYX4
Immunogen	Recombinant protein of human IFIH1

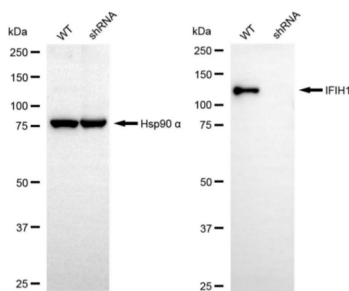
Background

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[provided by RefSeq, Jul 2020]

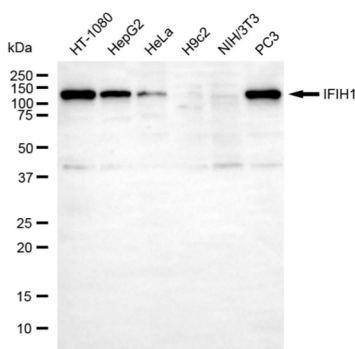
Research Area

Microbiology

Image Data



Western blotting analysis using IFIH1 antibody (KVA01907). IFIH1 expression in wild-type (WT) and IFIH1 shRNA knockdown (KD) HT-1080 cells with 20 µg of total cell lysates. Hsp90 α serves as a loading control. The blot was incubated with IFIH1 antibody (KVA01907, 1:5,000) and HRP-conjugated goat anti-mouse secondary antibody (APS0631, 1:10,000) respectively.



Western blotting analysis using IFIH1 antibody (KVA01907). Total cell lysates (30 µg) from various cell lines were loaded and separated by SDS-PAGE. The blot was incubated with IFIH1 antibody (KVA01907, 1:5,000) and HRP-conjugated goat anti-mouse secondary antibody (APS0631, 1:10,000) respectively.