Datasheet for ABIN500606

anti-DDX58 antibody

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Overview

Quantity:	0.1 mg
Target:	DDX58
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This DDX58 antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p)), Enzyme Immunoassay (EIA)

Product Details

Immunogen:	RIG-1 antibody was raised against human GST-tagged RIG-1 protein.
Isotype:	IgG
Specificity:	This antibody detects DEAD box protein 58.
Cross-Reactivity (Details):	Species reactivity (tested):Human, mouse, rat
Purification:	Peptide affinity chromatography

Target Details

Target:	DDX58
Alternative Name:	DDX58 (DDX58 Products)
Background:	The innate immune system detects viral infection by recognizing various viral components and

Target Details

	triggers antiviral responses. Like the toll-like receptor 3 (TLR3), the cytoplasmic helicase retinoic acid inducible gene protein 1 (RIG-1) recognizes double-stranded (ds) RNA, a molecular pattern associated with viral infection. Unlike TLR3 however, RIG-1 activates the kinases TBK1 and IKKepsilon through the adaptor protein IPS-1. These kinases then phosphorylate the transcription factors IRF-3 and IRF-7 which are essential for the expression of type-I interferons. RIG-1 is required for the production of interferons in response to RNA viruses including paramyxoviruses, influenza virus, and Japanese encephalitis virus.Synonyms: DEAD box protein 58, DKFZp434J1111, DKFZp686N19181, FLJ13599, Probable ATP-dependent RNA helicase DDX58, RIG-1, RIG-I, Retinoic acid-inducible gene 1 protein
Gene ID:	23586
UniProt:	O95786
Pathways:	Activation of Innate immune Response, Hepatitis C

Application Details

Application Notes:	ELISA. Western blot: 0.5 - 1 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

Buffer:	PBS containing 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.
Storage:	4 °C/-20 °C
Storage Comment:	Store at 2 - 8 °C for up to one month or (in aliquots) at -20 °C for longer.

Publications

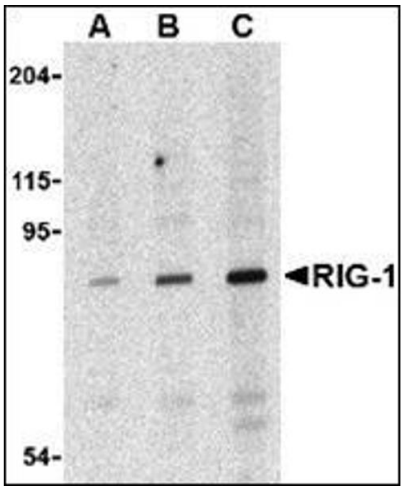
Product cited in:	Korolowicz, Iyer, Czerwinski, Suresh, Yang, Padmanabhan, Sheri, Pandey, Skell, Marquis, Kallakury, Tucker, Menne: "Antiviral Efficacy and Host Innate Immunity Associated with SB 9200

Publications

Treatment in the Woodchuck Model of Chronic Hepatitis B." in: **PLoS ONE**, Vol. 11, Issue 8, pp. e0161313, (2017) (PubMed).

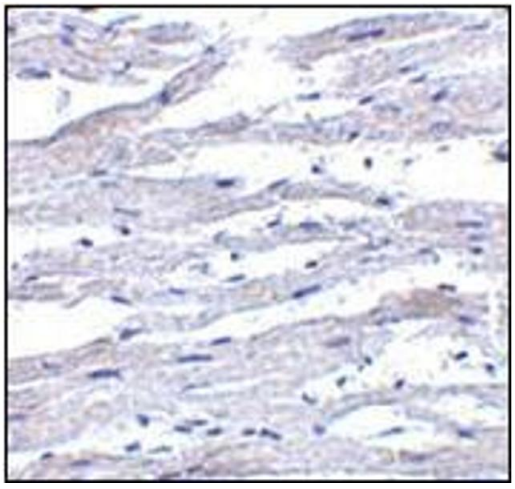
Gan, Hao, Idell, Tang: "Transcription Factor Runx3 Is Induced by Influenza A Virus and Double-Strand RNA and Mediates Airway Epithelial Cell Apoptosis." in: **Scientific reports**, Vol. 5, pp. 17916, (2016) (PubMed).

Images



Western Blotting

Image 1. Western blot analysis of RIG-1 in C2C12 cell lysate with this product at (A) 0.5, (B) 1 and (C) 2 µg/ml.



Immunohistochemistry (Paraffin-embedded Sections)

Image 2. Immunohistochemistry of RIG-1 in human heart tissue with this product at 5 µg/ml.