Datasheet for ABIN3030701

anti-DDX58 antibody (AA 894-925)

2 Images

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Overview

Quantity:	0.4 mL
Target:	DDX58
Binding Specificity:	AA 894-925
Reactivity:	Human, Mouse
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This DDX58 antibody is un-conjugated
Application:	Western Blotting (WB), ELISA

Product Details

Immunogen:	A portion of amino acids 894-925 from the human protein was used as the immunogen for this RIG-I antibody.
Isotype:	Ig Fraction
Purification:	Purified

Target Details

Target:	DDX58
Alternative Name:	RIG-I (DDX58 Products)
Background:	DEAD box proteins, characterized by the conserved motif Asp-Glu-Ala-Asp (DEAD), are putative RNA helicases which are implicated in a number of cellular processes involving RNA binding and alteration of RNA secondary structure. RIG-I contains RNA helicase-DEAD box protein

Target Details

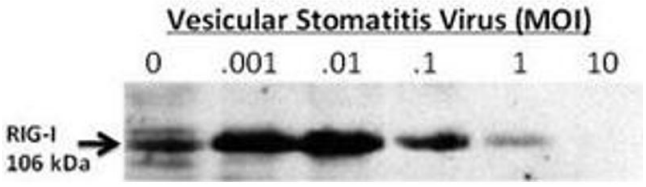
	motifs and a caspase recruitment domain (CARD). It is involved in viral double-stranded (ds) RNA recognition and the innate immune defense against viruses. Upon interaction with intracellular dsRNA produced during viral replication, RIG-I triggers a transduction cascade involving MAVS/IPS1, which results 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). This protein is essential for the production of interferons in response to RNA viruses including paramyxoviruses, influenza viruses, Japanese encephalitis virus and HCV.
UniProt:	O95786
Pathways:	Activation of Innate immune Response, Hepatitis C

Application Details

Application Notes:	Titration of the RIG-I antibody may be required due to differences in protocols and secondary/substrate sensitivity.\. Western blot: 1:1000
Restrictions:	For Research Use only

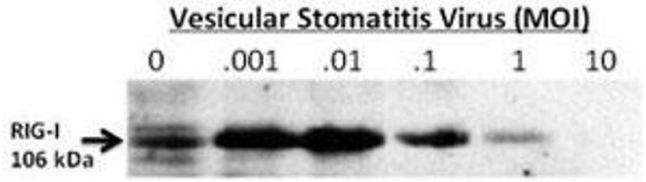
Handling

Format:	Liquid
Buffer:	In 1X PBS, pH 7.4, with 0.09 % 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.
Storage:	-20 °C
Storage Comment:	Aliquot the RIG-I antibody and store frozen at -20°C or colder. Avoid repeated freeze-thaw cycles.



Western Blotting

Image 1. Western blot testing of RIG-I antibody 24-hour post infection of primary murine microglia cells (2x10e6) untreated (0) or exposed to vesicular stomatitis virus at a range of viral particle/cell ratios. Predicted molecular weight ~106 kDa



Western Blotting

Image 2. Western blot testing of RIG-I antibody 24-hour post infection of primary murine microglia cells (2x10e6) untreated (0) or exposed to vesicular stomatitis virus at a range of viral particle/cell ratios. Predicted molecular weight ~106 kDa