Datasheet for ABIN388602

anti-DDX58 antibody (C-Term)

3 Images | 9 Publications

Go to Product page

Overview

Quantity:	400 µL
Target:	DDX58
Binding Specificity:	AA 894-925, C-Term
Reactivity:	Human, Mouse
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This DDX58 antibody is un-conjugated
Application:	Western Blotting (WB)

Product Details

Immunogen:	This RIG-I antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 894-925 amino acids from the C-terminal region of human RIG-I.
Clone:	RB8008
Isotype:	Ig Fraction
Purification:	This antibody is prepared by Saturated Ammonium Sulfate (SAS) precipitation followed by dialysis against PBS.

Target Details

Target:	DDX58
Alternative Name:	RIG-I (DDX58 Products)

Target Details

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 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.
Molecular Weight:	106600
Gene ID:	23586
NCBI Accession:	NP_055129
UniProt:	O95786
Pathways:	Activation of Innate immune Response, Hepatitis C

Application Details

Application Notes:	WB: 1:1000. WB: 1:2000. WB: 1:1000
Restrictions:	For Research Use only

Handling

Format:	Liquid
Buffer:	Purified polyclonal antibody supplied in PBS with 0.09 % (W/V) 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:	4 °C,-20 °C
Storage Comment:	Maintain refrigerated at 2-8 °C for up to 6 months. For long term storage store at -20 °C in small aliquots to prevent freeze-thaw cycles.
Expiry Date:	6 months

Publications

Product cited in:

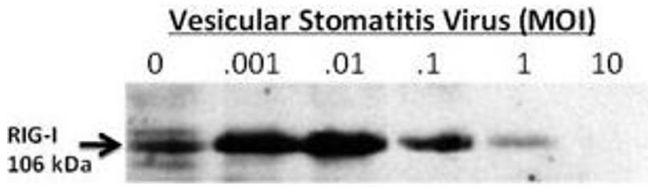
Curioni-Fontecedro, Knights, Tinguely, Nuber, Schneider, Thomson, von Boehmer, Bossart, Pahlich, Gehring, Moch, Renner, Knuth, Zippelius: "MAGE-C1/CT7 is the dominant cancer-testis antigen targeted by humoral immune responses in patients with multiple myeloma." in: **Leukemia**, Vol. 22, Issue 8, pp. 1646-8, (2008) (PubMed).

Dubovsky, Albertini, McNeel: "MAD-CT-2 identified as a novel melanoma cancer-testis antigen using phage immunoblot analysis." in: **Journal of immunotherapy (Hagerstown, Md. : 1997)**, Vol. 30, Issue 7, pp. 675-83, (2007) (PubMed).

Kondo, Zhu, Asa, Ezzat: "The cancer/testis antigen melanoma-associated antigen-A3/A6 is a novel target of fibroblast growth factor receptor 2-IIIb through histone H3 modifications in thyroid cancer." in: **Clinical cancer research : an official journal of the American Association for Cancer Research**, Vol. 13, Issue 16, pp. 4713-20, (2007) (PubMed).

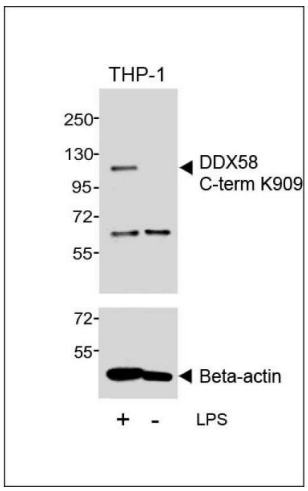
There are more publications referencing this product on: Product page

Images



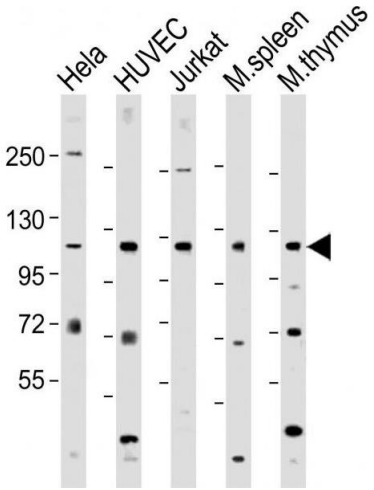
Western Blotting

Image 1. 24-hour post infection immunoblots of whole cell lysates from primary murine microglia cells (2x106) untreated (0) or exposed to vesicular stomatitis virus at a range of viral particle/cell ratios. Data courtesy of Dr. Samantha Furr, University of North Carolina at Charlotte.



Western Blotting

Image 2. Western blot analysis of lysates from THP-1 cell line, untreated or treated with LPS, 1 µg/mL, using DDX58 C-term (upper) or Beta-actin (lower).



Western Blotting

Image 3. All lanes : Anti-DDX58 C-term at 1:2000 dilution Lane 1: Hela whole cell lysate Lane 2: HUVEC whole cell lysate Lane 3: Jurkat whole cell lysate Lane 4: mouse spleen lysate Lane 5: mouse thymus lysate Lysates/proteins at 20 µg per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution. Predicted band size : 107 kDa Blocking/Dilution buffer: 5 % NFDM/TBST.