

RIG-1/DDX58 Monoclonal antibody

Catalog Number: 67556-1-Ig 1 Publications

Basic Information

Catalog Number: 67556-1-Ig	GenBank Accession Number: BC132786	Purification Method: Protein A purification
Size: 150ul , Concentration: 2000 µg/ml by Nanodrop and 940 µg/ml by Bradford method using BSA as the standard;	GeneID (NCBI): 23586	CloneNo.: 3B10F5
Source: Mouse	Full Name: DEAD (Asp-Glu-Ala-Asp) box polypeptide 58	Recommended Dilutions: WB 1:1000-1:6000 IF 1:200-1:800
Isotype: IgG1	Calculated MW: 925 aa, 107 kDa	
Immunogen Catalog Number: AG18591	Observed MW: 101/106 kDa	

Applications

Tested Applications: IF, WB, ELISA	Positive Controls:
Cited Applications: IF	WB : A431 cells, Hela cells, HEK-293 cells, HepG2 cells, Jurkat cells, HSC-T6 cells, NIH/3T3 cells
Species Specificity: Human, mouse, rat	IF : HepG2 cells,
Cited Species: human	

Background Information

DDX58, also named as RIG-1, belongs to the helicase family. It is involved in innate immune defense against viruses. Upon interaction with intracellular dsRNA produced during viral replication, 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). Detects dsRNA produced from non-self dsDNA by RNA polymerase III, such as Epstein-Barr virus-encoded RNAs (EBERs). It is essential for the production of interferons in response to RNA viruses including paramyxoviruses, influenza viruses, Japanese encephalitis virus and HCV. The antibody is specific to DDX58, which has two isoforms with the MW of 106 and 101 kDa.

Notable Publications

Author	Pubmed ID	Journal	Application
Xueying Zhai	36861818	Autophagy	IF

Storage

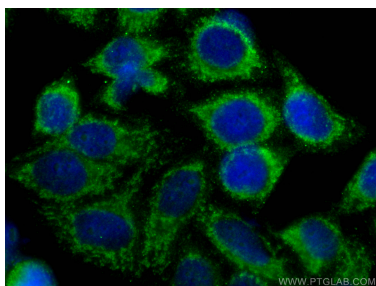
Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.
 Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

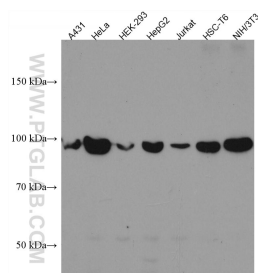
For technical support and original validation data for this product please contact:
 T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
 E: proteintech@ptglab.com
 W: ptglab.com

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Selected Validation Data



Immunofluorescent analysis of (-20°C Ethanol) fixed HepG2 cells using RIG-1/DDX58 antibody (67556-1-Ig, Clone: 3B10F5) at dilution of 1:400 and CoraLite®488-Conjugated AffiniPure Goat Anti-Mouse IgG(H+L).



Various lysates were subjected to SDS PAGE followed by western blot with 67556-1-Ig (DDX58 antibody) at dilution of 1:3000 incubated at room temperature for 1.5 hours.