

For Research Use Only

# RIG-1/DDX58 Polyclonal antibody

Catalog Number: 20566-1-AP

Featured Product

42 Publications



## Basic Information

### Catalog Number:

20566-1-AP

### Size:

150ul, Concentration: 1000 µg/ml by Nanodrop;

### Source:

Rabbit

### Isotype:

IgG

### GenBank Accession Number:

NM\_014314

### GeneID (NCBI):

23586

### UNIPROT ID:

O95786

### Full Name:

DEAD (Asp-Glu-Ala-Asp) box polypeptide 58

### Calculated MW:

107 kDa

### Observed MW:

101/106 kDa

### Purification Method:

Antigen affinity purification

### Recommended Dilutions:

WB 1:1000-1:6000

IP 0.5-4.0 µg for 1.0-3.0 mg of total protein lysate

IF 1:200-1:800

## Applications

### Tested Applications:

WB, IP, IF, ELISA

### Cited Applications:

WB, IP, RIP, IHC, ColP

### Species Specificity:

human, mouse, rat

### Cited Species:

human, mouse, monkey, pig, bovine

### Positive Controls:

WB: Jurkat cells, A431 cells, MCF-7 cells, mouse brain tissue, HepG2 cells, MOLT-4 cells

IP: HepG2 cells,

IF: H9C2 cells,

## 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.

## Notable Publications

Author	Pubmed ID	Journal	Application
Liang Zhang	30258002	J Virol	WB
Wei Zhang	25228491	J Gen Virol	WB
Lei-Ke Zhang	27605671	J Virol	WB

## 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

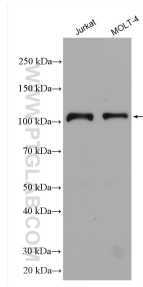
For technical support and original validation data for this product please contact:

T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)

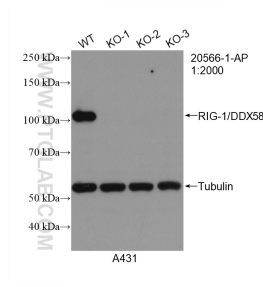
E: proteintech@ptglab.com  
W: ptglab.com

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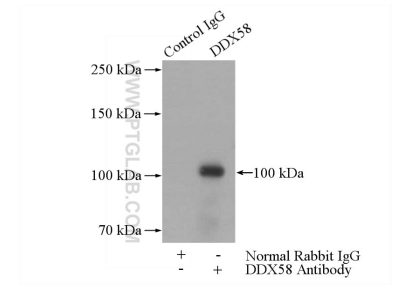
## Selected Validation Data



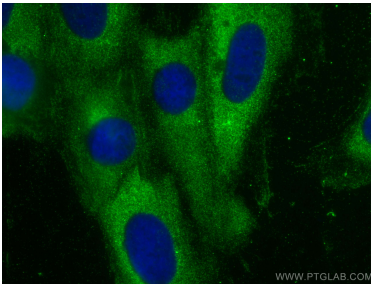
Various lysates were subjected to SDS PAGE followed by western blot with 20566-1-AP (RIG-1/DDX58 antibody) at dilution of 1:3000 incubated at room temperature for 1.5 hours.



WB result of RIG-1/DDX58 antibody (20566-1-AP; 1:2000; room temperature for 1.5 hours) with wild-type and RIG-1/DDX58 knockout A431 cells.



IP result of anti-RIG-1/DDX58 (IP:20566-1-AP, 4ug; Detection:20566-1-AP 1:300) with HepG2 cells lysate 3600ug.



Immunofluorescent analysis of (-20°C Methanol) fixed H9C2 cells using RIG-1/DDX58 antibody (20566-1-AP) at dilution of 1:400 and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).