

For Research Use Only

# RIG-1/DDX58 Polyclonal antibody

Catalog Number: 25068-1-AP

5 Publications



## Basic Information

### Catalog Number:

25068-1-AP

### Size:

150ul, Concentration: 600 ug/ml by Nanodrop;

### Source:

Rabbit

### Isotype:

IgG

### Immunogen Catalog Number:

AG18585

### GenBank Accession Number:

BC132786

### GeneID (NCBI):

23586

### UNIPROT ID:

O95786

### Full Name:

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

### Calculated MW:

925 aa, 106 kDa

### Observed MW:

101~106 kDa

### Purification Method:

Antigen affinity purification

### Recommended Dilutions:

WB 1:1000-1:6000

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

IHC 1:100-1:1200

## Applications

### Tested Applications:

WB, IHC, IP, ELISA

### Cited Applications:

WB, IHC, IP

### Species Specificity:

human, mouse

### Cited Species:

human

### Positive Controls:

WB : A431 cells, HeLa cells, NIH/3T3 cells, THP-1 cells

IP : A431 cells,

IHC : human colon tissue, human heart tissue

**Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (\*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0**

## 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.

## Notable Publications

Author	Pubmed ID	Journal	Application
Di Jing	31464090	Cancer Med	WB,IHC
Mary Wang	39585062	Neurol Int	WB
Mehmet Hakan Guney	38985764	Proc Natl Acad Sci U S A	WB,IP

## Storage

### Storage:

Store at -20°C. Stable for one year after shipment.

### Storage Buffer:

PBS with 0.02% sodium azide and 50% glycerol, pH7.3

Aliquoting is unnecessary for -20°C storage

\*\*\* 20ul sizes contain 0.1% BSA

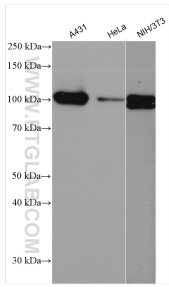
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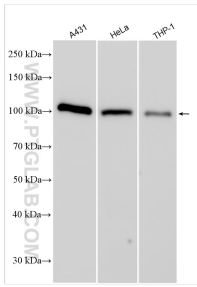
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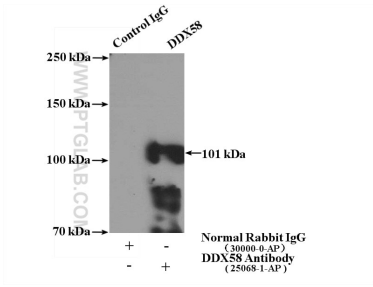
Selected Validation Data



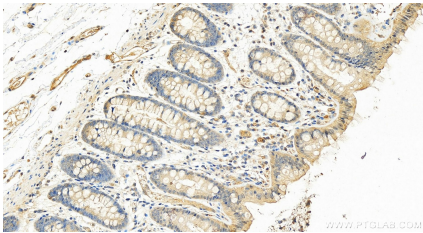
Various lysates were subjected to SDS PAGE followed by western blot with 25068-1-AP (RIG-1/DDX58 antibody) at dilution of 1:3000 incubated at room temperature for 1.5 hours.



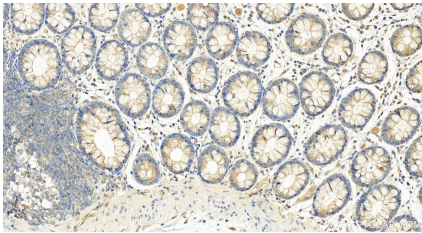
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IP result of anti-RIG-1/DDX58 (IP:25068-1-AP, 4ug; Detection:25068-1-AP 1:600) with A431 cells lysate 1200ug.



Immunohistochemical analysis of paraffin-embedded human normal colon slide using 25068-1-AP (RIG-1/DDX58 antibody) at dilution of 1:1200 (under 20x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded human normal colon slide using 25068-1-AP (RIG-1/DDX58 antibody) at dilution of 1:1200 (under 20x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).