

## RIG-1/DDX58 Polyclonal antibody

Catalog Number: 25068-1-AP

2 Publications

## Basic Information

## Catalog Number:

25068-1-AP

## Size:

600 µg/ml

## 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, 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

IHC 1:20-1:200

## Applications

## Tested Applications:

IHC, IP, WB, ELISA

## Cited Applications:

WB, IP, IHC

## Species Specificity:

human

## Cited Species:

human

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

## Positive Controls:

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

IP : A431 cells,

IHC : human heart tissue, human colon tissue

## 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
Mehmet Hakan Guney	38014177	bioRxiv	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 pH 7.3.

Aliquoting is unnecessary for -20°C storage

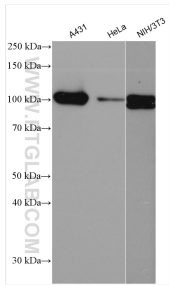
For technical support and original validation data for this product please contact:

T: 4006900926

E: [Proteintech-CN@ptglab.com](mailto:Proteintech-CN@ptglab.com)W: [ptgcn.com](http://ptgcn.com)

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

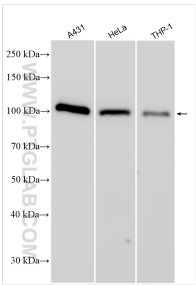
Selected Validation Data



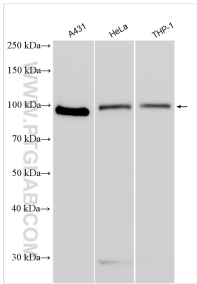
Various lysates were subjected to SDS PAGE followed by western blot with 25068-1-AP (RIG-1/DDX58 antibody) at dilution of 1:3000 incubated at room temperature for 1.5 hours.



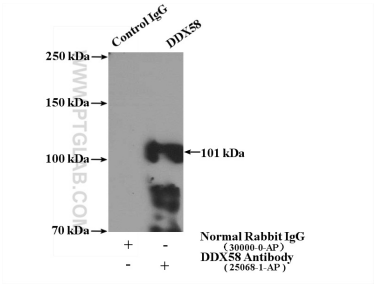
A431 cells were subjected to SDS PAGE followed by western blot with 25068-1-AP (DDX58 Antibody) at dilution of 1:600 incubated at room temperature for 1.5 hours.



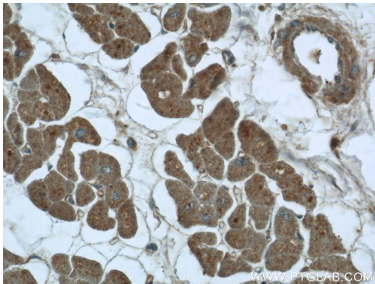
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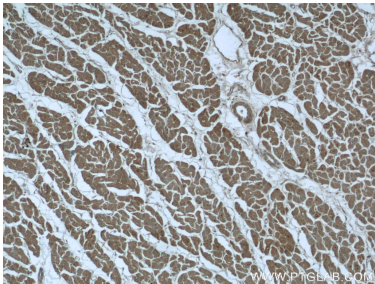
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IP result of anti-RIG-1/DDX58 (IP:25068-1-AP, 4ug; Detection:25068-1-AP 1:600) with A431 cells lysate 1200ug.



Immunohistochemical analysis of paraffin-embedded human heart tissue slide using 25068-1-AP (DDX58 Antibody) at dilution of 1:50 (under 40x lens).



Immunohistochemical analysis of paraffin-embedded human heart tissue slide using 25068-1-AP (DDX58 Antibody) at dilution of 1:50 (under 10x lens).