For Research Use Only

RIG-1/DDX58 Polyclonal antibody

Catalog Number:25068-1-AP 6 Publications

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Basic Information

Catalog Number:
25068-1-AP

Concentration:
600 ug/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, 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, pig, monkey

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, NIH/3T3 cells, THP-1 cells

IP : A431 cells,

IHC : human colon tissue, human heart 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
Shasha Li	39986258	Virology	WB
Mary Wang	39585062	Neurol Int	WB

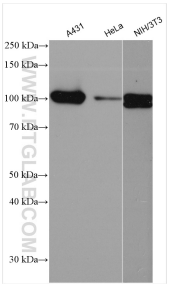
Storage

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

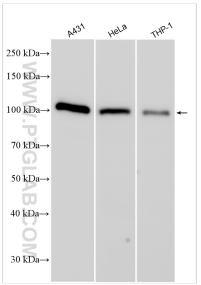
For technical support and original validation data for this product please contact:
T: 4006900926 E: Proteintech-CN@ptglab.com W: ptgcn.com

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.



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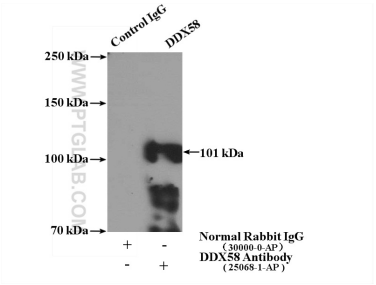
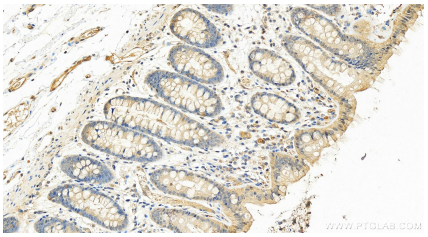
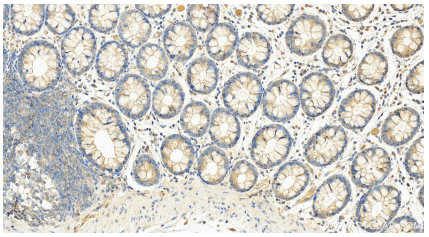


IP result of anti-RIG-1/DDX58 (IP:25068-1-AP, 4ug; Detection:25068-1-AP 1:600) with A431 cells lysate 1200ug.



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).



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