For Research Use Only

RIG-1/DDX58 Polyclonal antibody

Catalog Number:20566-1-AP Featured Product 95 Publications

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Antibodies | ELISA kits | Proteins
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Basic Information

Catalog Number:
20566-1-AP

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:
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
IF/ICC: 1:200-1:800

Applications

Tested Applications:
WB, IF/ICC, IP, ELISA

Cited Applications:
WB, IHC, IF, IP, CoIP, RIP

Species Specificity:
human, mouse, rat

Cited Species:
human, mouse, rat, pig, monkey, bovine

Positive Controls:

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

IP : HepG2 cells,

IF/ICC : 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

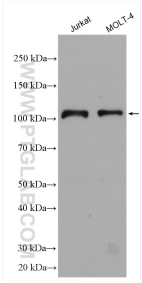
Storage

Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol, pH7.3
Aliquoting is unnecessary for -20°C storage

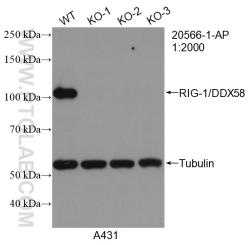
For technical support and original validation data for this product please contact:
T: 4006900926 E: Proteintech-CN@ptglab.com W: ptgcn.com

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

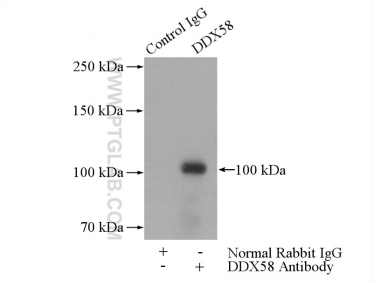
Selected Validation Data



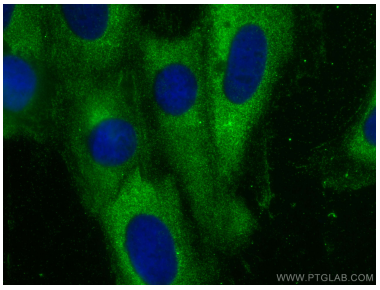
Various lysates were subjected to SDS PAGE followed by western blot with 20566-1-AP (RIG-1/DDX58 antibody) at dilution of 1:3000 incubated at room temperature for 1.5 hours.



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).