DDX58 (PT0686R) PT® Rabbit mAb

CatalogNo: YM8495 Recombinant

Key Features

Host Species
- Rabbit

Reactivity
- Human,Mouse

Applications
- WB,IHC,IF,IP,ELISA

MW
- 107kD (Calculated)

107kD (Observed)

Isotype
- IgG,Kappa

Recommended Dilution Ratios

IHC 1:200-1:1000
WB 1:500-1:2000
IF 1:200-1:1000
ELISA 1:5000-1:20000
IP 1:50-1:200

Storage

Storage*	-15°C to -25°C/1 year(Do not lower than -25°C)
Formulation	PBS, 50% glycerol, 0.05% Proclin 300, 0.05%BSA

Basic Information

Clonality	Monoclonal
Clone Number	PT0686R

Immunogen Information

Specificity	Endogenous

Target Information

Gene name DDX58

Protein Name Probable ATP-dependent RNA helicase DDX58 (DEAD box protein 58) (RIG-I-like receptor 1) (RLR-1) (Retinoic acid-inducible gene 1 protein) (RIG-1) (Retinoic acid-inducible gene I protein) (RIG-I)

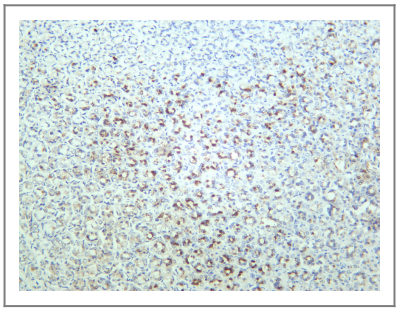
Organism	Gene ID	UniProt ID
Human	23586;	O95786;
Mouse		Q6Q899;

Cellular Localization Cytoplasm

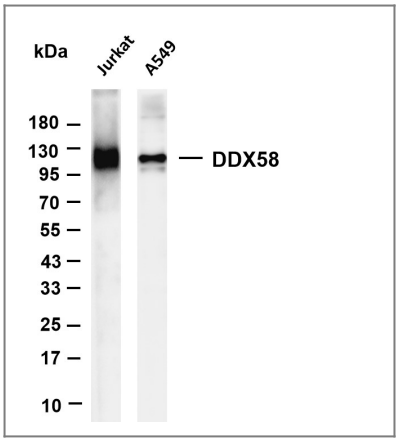
Tissue specificity Present in vascular smooth cells (at protein level).

Function Domain:The 2 CARD domains are responsible for interaction with and signaling through MAVS.,Domain:The helicase domain is responsible for dsRNA recognition.,Domain:The repressor domain controls homomultimerization and interaction with MAVS.,Function: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). Essential for the production of interferons in response to RNA viruses including paramyxoviruses, influenza viruses, Japanese encephalitis virus and HCV.,induction:By bacterial lipopolysaccharide (LPS) in endothelial cells. By IFN-alpha, -beta and -gamma.,PTM:Isgylated. Conjugated to ubiquitin-like protein ISG15 upon IFN-beta stimulation.,similarity:Belongs to the helicase family.,similarity:Contains 1 helicase ATP-binding domain.,similarity:Contains 1 helicase C-terminal domain.,similarity:Contains 2 CARD domains.,subunit:Monomer; maintained as a monomer in an autoinhibited state. Upon viral dsRNA binding and conformation shift, homomultimerizes and interacts with MAVS. Interacts with DHX58/LGP2, IKBKE, TBK1 and TMEM173/STING.,tissue specificity:Present in vascular smooth cells (at protein level).,

Validation Data



Human stomach was stained with anti-DDX58 (PT0686R) rabbit antibody



Various whole cell lysates were separated by 4-20% SDS-PAGE, and the membrane was blotted with anti-DDX58 (PT0686R) antibody. The HRP-conjugated Goat anti-Rabbit IgG(H + L) antibody was used to detect the antibody. Lane 1: Jurkat Lane 2: A549 Predicted band size: 107kDa Observed band size: 107kDa

Contact information

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Please scan the QR code to access additional product information:
DDX58 (PT0686R) PT® Rabbit mAb