

DDX58 Rabbit pAb

CatalogNo: YN2110

Key Features

Host Species

- Rabbit

Reactivity

- Human, Mouse

Applications

- WB, ELISA

MW

- 101kD (Observed)

Isotype

- IgG

Recommended Dilution Ratios

WB 1:500-2000

ELISA 1:5000-20000

Storage

Storage* -15°C to -25°C/1 year (Do not lower than -25°C)

Formulation Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.

Basic Information

Clonality Polyclonal

Immunogen Information

Immunogen Synthesized peptide derived from part region of human protein

Specificity DDX58 Polyclonal Antibody detects endogenous levels of protein.

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 1 protein) (RIG-I)

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

Cellular Localization Cytoplasm. Cell projection, ruffle membrane. Cytoplasm, cytoskeleton. Cell junction, tight junction. Colocalized with TRIM25 at cytoplasmic perinuclear bodies. Associated with the actin cytoskeleton at membrane ruffles.

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

Contact information

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