

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	<p>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).,</p>		

| Validation Data

| Contact information

Orders:

order.cn@immunoway.com

Support:

support.cn@immunoway.com

Telephone:

400-8787-807(China)

Website:

http://www.immunoway.com.cn

Address:

2200 Ringwood Ave San Jose, CA 95131 USA



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