



DDX58 Polyclonal Antibody

Catalog No	YP-Ab-06972
Isotype	IgG
Reactivity	Human;Mouse
Applications	WB;ELISA
Gene Name	DDX58
Immunogen	Synthesized peptide derived from part region of human protein
Specificity	DDX58 Polyclonal Antibody detects endogenous levels of protein.
Formulation	Liquid in PBS containing 50% glycerol, and 0.02% sodium azide.
Source	Polyclonal, Rabbit,IgG
Purification	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
Dilution	WB 1:500-2000 ELISA 1:5000-20000
Concentration	1 mg/ml
Purity	≥90%
Storage Stability	-20°C/1 year
Synonyms	DDX58;RIG-I;Retinoic acid-inducible gene 1 protein;EC:3.6.4.13;Probable ATP-dependent RNA helicase DDX58 (EC 3.6.4.13) (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)
Observed Band	101~106 kDa
Calculated Molecular Weight	106 kDa
Cell Pathway	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- α , - β and - γ .,PTM:Isgylated. Conjugated to ubiquitin-like protein ISG15

Background

DEAD box proteins, characterized by the conserved motif Asp-Glu-Ala-Asp (DEAD), are putative RNA helicases which are implicated in a number of cellular processes involving RNA binding and alteration of RNA secondary structure. This gene encodes a protein containing RNA helicase-DEAD box protein motifs and a caspase recruitment domain (CARD). It is involved in viral double-stranded (ds) RNA recognition and the regulation of immune response. [provided by RefSeq, Jul 2008],

matters needing attention

Avoid repeated freezing and thawing!

Usage suggestions

This product can be used in immunological reaction related experiments. For more information, please consult technical personnel.

Products Images