

## Rabbit Anti-phospho-DDX58 (Ser8) antibody

SL5299R

Product Name:	phospho-DDX58 (Ser8)
Chinese Name:	磷酸化DDX58抗体
Alias:	p-DDX58 (Ser8); DEAD/H (Asp-Glu-Ala-Asp/His) box polypeptide RIG-I; DKFZp434J1111; DKFZp686N19181; FLJ13599; C330021E21;
	OTTHUMP00000045225; DEAD (Asp-Glu-Ala-Asp) box polypeptide 58; DEAD (Asp Glu Ala Asp/His) box polypeptide; DEAD box protein 58; Probable ATP dependent RNA helicase DDX58; Retinoic acid inducible gene 1 protein; RIG I; rig-I; RIG1; rigi; RNA helicase.
Organism Species:	Rabbit
Clonality:	Polyclonal
React Species:	Human,
Applications:	WB=1:500-2000ELISA=1:500-1000IHC-P=1:400-800IHC-F=1:400-800IF=1:100- 500 (Paraffin sections need antigen repair) not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Molecular weight:	102kDa
Cellular localization:	cytoplasmic
Form:	Lyophilized or Liquid
Concentration:	lmg/ml
immunogen:	KLH conjugated Synthesised phosphopeptide derived from human DDX58 around the phosphorylation site of Ser8:RR(p-S)LQ
Lsotype:	IgG
Purification:	affinity purified by Protein A
Storage Buffer:	0.01M TBS(pH7.4) with 1% BSA, 0.03% Proclin300 and 50% Glycerol.
Storage:	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. The lyophilized antibody is stable at room temperature for at least one month and for greater than a year when kept at -20°C. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.
PubMed:	PubMed

Product Detail:	The innate immune system detects viral infection by recognizing various viral components and triggers antiviral responses. Like the toll-like receptor 3 (TLR3), the cytoplasmic helicase retinoic acid inducible gene protein 1 (RIGI/DDX58) recognizes double-stranded (ds) RNA, a molecular pattern associated with viral infection. Unlike TLR3 however, RIGI/DDX58 activates the kinases TBK1 and IKKe through the adaptor protein IPS1. These kinases then phosphorylate the transcription factors IRF3 and IRF7 which are essential for the expression of type-1 interferons. RIGI/DDX58 is required for the production of interferons in response to RNA viruses including paramyxoviruses, influenza virus, and Japanese encephalitis virus. 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). Detects dsRNA produced from non-self dsDNA by RNA polymerase III, such as Epstein-Barr virus-encoded RNAs (EBERs). Essential for the production of interferons in response to RNA viruses including paramyxoviruses, influenza viruses, Japanese encephalitis virus and HCV. Subunit: Monomer; maintained as a monomer in an autoinhibited state. Upon viral dsRNA binding and conformation shift, homomultimerizes and interacts (via CARD domain) with TRIM25 (via SPRY domain). Interacts with RNF135. Interacts with CY1.D. Interacts with NLRC5; blocks the interaction of MAVS to DDX58. Interacts with SRC. Subcellular Location: Cytoplasm. Note=Colocalized with TRIM25 at cytoplasmic perinuclear bodies. Tissue Specificity: Present in vascular smooth cells (at protein level). Post-translational modifications: Phosphorylated in resting cells and dephosphorylated in RNA virus-infected cells. Phosphorylated in trating cells and tys-63'-linked ubiquitination. Lys-172 is the critical s
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Similarity: Belongs to the helicase family. Contains 2 CARD domains. Contains 1 helicase ATP-binding domain. Contains 1 helicase C-terminal domain.

**SWISS:** 095786

**Gene ID:** 23586

Database links:

Entrez Gene: 23586Human

Entrez Gene: 230073 Mouse

Entrez Gene: 297989Rat

Omim: 609631Human

SwissProt: 095786Human

SwissProt: Q6Q899Mouse

Unigene: 190622Human

Unigene: 86382Mouse

## Important Note:

This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.

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