

Product datasheet for **TA306359**

DDX58 Rabbit Polyclonal Antibody

Product data:

Product Type:	Primary Antibodies
Applications:	ELISA, IHC, WB
Recommended Dilution:	RIG-1 antibody can be used for the detection of RIG-1 by Western blot at 0.5 - 2 µg/mL. Antibody can also be used for immunohistochemistry starting at 5 µg/mL. Antibody validated: Western Blot in mouse samples and Immunohistochemistry in human and rat samples. All other applications and species not yet tested.
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Immunogen:	RIG-1 antibody was raised against human GST-tagged RIG-1 protein.
Formulation:	PBS containing 0.02% sodium azide.
Concentration:	1 mg/ml
Purification:	RIG-1 Antibody is Protein A purified.
Conjugation:	Unconjugated
Storage:	Store at -20°C as received.
Stability:	Stable for 12 months from date of receipt.
Gene Name:	DEXD/H-box helicase 58
Database Link:	NP_055129 Entrez Gene 230073 MouseEntrez Gene 297989 RatEntrez Gene 23586 Human O95786



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Background:	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 (RIG-1) recognizes double-stranded (ds) RNA, a molecular pattern associated with viral infection. Unlike TLR3 however, RIG-1 activates the kinases TBK1 and IKKepsilon through the adaptor protein IPS-1. These kinases then phosphorylate the transcription factors IRF-3 and IRF-7 which are essential for the expression of type-I interferons. RIG-1 is required for the production of interferons in response to RNA viruses including paramyxoviruses, influenza virus, and Japanese encephalitis virus.
Synonyms:	RIG-I; RIGI; RLR-1
Protein Pathways:	Cytosolic DNA-sensing pathway, RIG-I-like receptor signaling pathway