

Probable ATP-dependent RNA helicase DDX58 Recombinant Protein | DDX58 recombinant protein

Recombinant Human Probable ATP-dependent RNA helicase DDX58

CATALOG # AAA309731	HOST E Coli
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PRODUCT SYNONYMS

Probable ATP-dependent RNA helicase DDX58; Recombinant Human Probable ATP-dependent RNA helicase DDX58; DEAD box protein 58RIG-I-like receptor 1; RLR-1Retinoic acid-inducible gene 1 protein; RIG-1Retinoic acid-inducible gene I protein; RIG-I; DDX58 recombinant protein

PRODUCT SPECIFICATIONS

Host	E Coli
Purity/Purification	Greater than 90% as determined by SDS-PAGE.
Form/Format	20mM Tris-HCl based buffer, pH8.0
Sequence Positions	including Helicase ATP-binding domain, CARD 1 domain and CARD 2 domain, 1-430aa
Sequence	MTTEQRRSLQ AFQDYIRKTL DPTYILSYMA PWFREEEVQY IQAEKNNKGP MEAATLFLKF LLELQEEGWF RGFLDALDHA GYSGLYEAIE SWDFKKIEKL EEYRLLLKRL QPEFKTRIIP TDIISDLSEC LINQECEIL QICSTKGMMA GAEKLVECLL RSDKENWPKT LKLAL EKERN KFS ELWIVEK GIKDVETEDL EDKMETS DIQ IFYQEDPECQ NLENSC PPS EVSDTNLYSP FKPRNYQLEL ALPAMKGKNT IICAPTGC GK TFVSL LICEH HLK KFPQGQK GKVVFFANQI PVYEQQKSVF SKYFERHGYR VTGISGATAE NVPVEQIVEN NDIILTPQI LVNNLKKGTI PLSIIFTLMI FDECHNTSKQ HPYNMIMFNY LDQKLGGSSG PLPQVIGLTA SVGVGD AKNT DEALDYICKL
Target species	Human
Calculated MW	53.3kD
Tag Info	His-tag
Preparation and Storage	Store at -20°C, for extended storage, conserve at -20°C or -80°C. Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.

ADDITIONAL INFORMATION

Related Product Information for DDX58 recombinant protein	Innate immune receptor which acts as a cytoplasmic sensor of viral nucleic acids and plays a major role in sensing viral infection and in the activation of a cascade of antiviral responses including the induction of type I interferons and proinflammatory cytokines. Its ligands include: 5'-triphosphorylated ssRNA and dsRNA and short dsRNA (< 1 kb in length). In addition to the 5'-triphosphate moiety, blunt-end base pairing at the 5'-end of the RNA is very essential. Overhangs at the non-triphosphorylated end of the dsRNA RNA have no major impact on its activity. A 3'overhang at the 5'triphosphate end decreases and any 5'overhang at the 5' triphosphate end abolishes its activity. Upon ligand binding it associates with mitochondria antiviral signaling protein (MAVS/IPS1) which activates the IKK-related kinases: TBK1 and IKBE which phosphorylate interferon regulatory factors: IRF3 and IRF7 which in turn activate transcription of antiviral immunological genes, including interferons (IFNs); IFN-alpha and IFN-beta. Detects both positive and negative strand RNA viruses including mbers of the families Paramyxoviridae: Human respiratory syncytial virus and measles virus (MeV), Rhabdoviridae: vesicular stomatitis virus (VSV), Orthomyxoviridae: influenza A and B virus, Flaviviridae: Japanese encephalitis virus (JEV), hepatitis C virus (HCV), dengue virus (DENV) and west Nile virus (WNV). It also detects rotavirus and reovirus. Also involved in antiviral signaling in response to viruses containing a dsDNA genome such as Epstein-Barr virus (EBV). Detects dsRNA produced from non-self dsDNA by RNA polymerase III, such as Epstein-Barr virus-encoded RNAs (EBERs). May play important roles in granulocyte production and differentiation, bacterial phagocytosis and in the regulation of cell migration
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NCBI AND UNIPROT INFORMATION

NCBI GI #	27881482
NCBI GeneID	23586
NCBI Accession #	NP_055129.2
NCBI GenBank Nucleotide #	NM_014314.3
UniProt Accession #	O95786; Q5HYE1; Q5VYT1; Q9NT04; A2RU81
NCBI Official Full Name	probable ATP-dependent RNA helicase DDX58
NCBI Official Synonym Full Names	DEXD/H-box helicase 58
NCBI Official Symbol	DDX58
NCBI Official Synonym Symbols	RIGI; RIG-I; RLR-1; SGMRT2
NCBI Protein Information	probable ATP-dependent RNA helicase DDX58
UniProt Protein Name	Probable ATP-dependent RNA helicase DDX58
UniProt Gene Name	DDX58
UniProt Synonym Gene Names	RLR-1; RIG-1; RIG-I

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://www.aaabiotech.com/ddx58-recombinant-protein-e-coli/309731>