

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

Recombinant Human Probable ATP-dependent RNA helicase DDX58

CATALOG # AAA114600	HOST E Coli or Yeast or Baculovirus or Mammalian Cell
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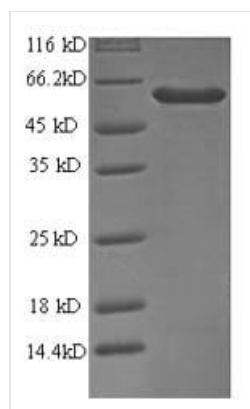
PRODUCT SYNONYMS

Probable ATP-dependent RNA helicase DDX58; Recombinant Human 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; DDX58 recombinant protein

PRODUCT SPECIFICATIONS

Host	E Coli or Yeast or Baculovirus or Mammalian Cell
Purity/Purification	Greater or equal to 85% purity as determined by SDS-PAGE.
Form/Format	Lyophilized or liquid (Format to be determined during the manufacturing process)
Sequence Positions	1-430aa; Partial
Sequence	MTTEQRRSLQ AFQDYIRKTL DPTYILSYMA PWFREEEVQY IQAEKNNKGP MEAATLFLKF LLELQEEGWF RGFLDALDHA GYSGLYEAIE SWDFKKIEKL EEYRLLLKRL QPEFKTRIIP TDIISDLSEC LINQECEEIL QICSTKGMMMA 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 SVGVGDAKNT DEALDYICKL
Production Note	Special Offer: The E Coli host-expressed protein is manufactured from a stock plasmid containing the protein gene. E Coli host-expressed protein is stocked in different unit sizes ranging from as small as 10 ug to as large as 1 mg. Bulk inventory is also available. The E Coli host-expressed protein has been ordered over and over again by researchers and has stood the test of time as both a robust protein and important target for the research community. It is part of our new program to make our most popular protein targets and corresponding hosts available in expanded unit sizes and with a quick processing time. Select E Coli host-expressed protein for the fastest delivery among all hosts. Please contact our or email to for more details.
Preparation and Storage	Store at -20 degree C, for extended storage, conserve at -20 degree C or -80 degree C.

IMAGES



SDS-PAGE

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 IKBKE 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
Product Categories/Family for DDX58 recombinant protein	Immunology
References	RIG-I, a human homolog gene of RNA helicase, is induced by retinoic acid during the differentiation of acute promyelocytic leukemia cell.Sun Y.-W.Thesis (1997) , Shanghai Institute of Hematology, ChinaRetinoic acid-inducible gene-I is induced in endothelial cells by LPS and regulates expression of COX-2.Imazumi T., Aratani S., Nakajima T., Carlson M., Matsumiya T., Tanji K., Ookawa K., Yoshida H., Tsuchida S., McIntyre T.M., Prescott S.M., Zimmerman G.A., Satoh K.Biochem. Biophys. Res. Commun. 292:274-279(2002) DNA sequence and analysis of human chromosome 9.Humphray S.J., Oliver K., Hunt A.R., Plumb R.W., Loveland J.E., Howe K.L., Andrews T.D., Searle S., Hunt S.E., Scott C.E., Jones M.C., Ainscough R., Almeida J.P., Ambrose K.D., Ashwell R.I.S., Babbage A.K., Babbage S., Bagguley C.L., Bailey J., Banerjee R., Barker D.J., Barlow K.F., Bates K., Beasley H., Beasley O., Bird C.P., Bray-Allen S., Brown A.J., Brown J.Y., Burford D., Burrill W., Burton J., Carder C., Carter N.P., Chapman J.C., Chen Y., Clarke G., Clark S.Y., Clee C.M., Clegg S., Collier R.E., Corby N., Crosier M., Cummings A.T., Davies J., Dhami P., Dunn M., Dutta I., Dyer L.W., Earthrowl M.E., Faulkner L., Fleming C.J., Frankish A., Frankland J.A., French L., Fricker D.G., Garner P., Garnett J., Ghori J., Gilbert J.G.R., Glison C., Grafham D.V., Gribble S., Griffiths C., Griffiths-Jones S., Grocock R., Guy J., Hall R.E., Hammond S., Harley J.L., Harrison E.S.I., Hart E.A., Heath P.D., Henderson C.D., Hopkins B.L., Howard P.J., Howden P.J., Huckle E., Johnson C., Johnson D., Joy A.A., Kay M., Keenan S., Kershaw J.K., Kimberley A.M., King A., Knights A., Laird G.K., Langford C., Lawlor S., Leongamornlert D.A., Leversha M., Lloyd C., Lloyd D.M., Lovell J., Martin S., Mashreghi-Mohammadi M., Matthews L., McLaren S., McLay K.E., McMurray A., Milne S., Nickerson T., Nisbett J., Nordsiek G., Pearce A.V., Peck A.I., Porter K.M., Pandian R., Pelan S., Phillimore B., Povey S., Ramsey Y., Rand V., Scharfe M., Sehra H.K., Shownkeen R., Sims S.K., Skuce C.D., Smith M., Steward C.A., Swarbreck D., Sycamore N., Tester J., Thorpe A., Tracey A., Tromans A., Thomas D.W., Wall M., Wallis J.M., West A.P., Whitehead S.L., Willey D.L., Williams S.A., Wilming L., Wray P.W., Young L., Ashurst J.L., Coulson A., Blocker H., Durbin R.M., Sulston J.E., Hubbard T., Jackson M.J., Bentley D.R., Beck S., Rogers J., Dunham I.Nature 429:369-374(2004)

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
Molecular Weight	53.3 kDa
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
UniProt Entry Name	DDX58_HUMAN

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/114600>