

Product datasheet for **TP304837**

DHX58 (NM_024119) Human Recombinant Protein

Product data:

Product Type:	Recombinant Proteins
Description:	Recombinant protein of human DEXH (Asp-Glu-X-His) box polypeptide 58 (DHX58), 20 µg
Species:	Human
Expression Host:	HEK293T
Expression cDNA Clone or AA Sequence:	>RC204837 protein sequence Red =Cloning site Green =Tags(s)

MELRSYQWEVIMPALEGKNIWLP TGAGKTRAAAYVAKRHLETVDGAKVVVLVNRVHLVTQHGEFFRRM
LDGRWTVTTLSGDMGPRAGFGHLARCHDLLICTAELLQMALTSPEEEHVELTVFSLIVVDECHHTHKDT
VYNVIMSQYLELKLQRAQPLPQVLGLTASPGTGGASKLDGAINHVLQLCANLDTWCIMSPQNCCPQLQEH
SQQPCKQYNLCHRRSQDPFGDLLKLMQIHHDHLEMPESRKFQTMQEQQVVKLSEAAALAGLQEQRVY
ALHLRRYNDALLIHDTVRAVDALAALQDFYHREHVTKTQILCAERRLLALFDDRKNELAHLATHGPENPK
LEMLEKILQRQFSSNSPRGIIFTRTRQSAHLLLWLQQQGLQTVDIRAQLLIGAGNSSQSTHMTQRDQ
QEVQKQFDGTLNLLVATSVAEEGLDIPHCNVVRYGLLTNEISMVQARGRARADQSVYAFVATEGSREL
KRELINAELETLMQAVAAVQKMDQAEYQAKIRDLQQAALTKRAAQAAQRENQRQQFPVEHVQLLINCINCM
VAVGHGSDLRKEGTHHVNVNPNFNSNYNVS RDPVWINKVKFDWKPGGVISCRNCGEVWGLQMIYKSVKL
PVLKVRSMLETPQGRIQAKKWSRVPFVSPDFDFLQHCAENLSDLSDL

SGPTRRPLEQKLISEEDLAANDILDYKDDDDKV

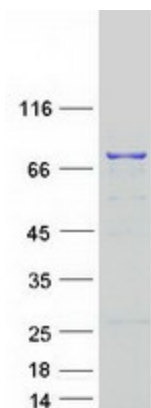
Tag:	C-Myc/DDK
Predicted MW:	76.4 kDa
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol
Preparation:	Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.
Note:	For testing in cell culture applications, please filter before use. Note that you may experience some loss of protein during the filtration process.
Storage:	Store at -80°C.



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Stability:	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
RefSeq:	NP_077024
Locus ID:	79132
UniProt ID:	Q96C10 , A0A024R1Y5
RefSeq Size:	2631
Cytogenetics:	17q21.2
RefSeq ORF:	2034
Synonyms:	D11LGP2; D11lgp2e; LGP2; RLR-3
Summary:	Acts as a regulator of DDX58/RIG-I and IFIH1/MDA5 mediated antiviral signaling. Cannot initiate antiviral signaling as it lacks the CARD domain required for activating MAVS/IPS1-dependent signaling events. Can have both negative and positive regulatory functions related to DDX58/RIG-I and IFIH1/MDA5 signaling and this role in regulating signaling may be complex and could probably depend on characteristics of the infecting virus or target cells, or both. Its inhibitory action on DDX58/RIG-I signaling may involve the following mechanisms: competition with DDX58/RIG-I for binding to the viral RNA, binding to DDX58/RIG-I and inhibiting its dimerization and interaction with MAVS/IPS1, competing with IKBKE in its binding to MAVS/IPS1 thereby inhibiting activation of interferon regulatory factor 3 (IRF3). Its positive regulatory role may involve unwinding or stripping nucleoproteins of viral RNA thereby facilitating their recognition by DDX58/RIG-I and IFIH1/MDA5. Involved in the innate immune response to various RNA viruses and some DNA viruses such as poxviruses, and also to the bacterial pathogen <i>Listeria monocytogenes</i> . Can bind both ssRNA and dsRNA, with a higher affinity for dsRNA. Shows a preference to 5'-triphosphorylated RNA, although it can recognize RNA lacking a 5'-triphosphate.[UniProtKB/Swiss-Prot Function]
Protein Pathways:	RIG-I-like receptor signaling pathway

Product images:



Coomassie blue staining of purified DHX58 protein (Cat# TP304837). The protein was produced from HEK293T cells transfected with DHX58 cDNA clone (Cat# [RC204837]) using MegaTran 2.0 (Cat# [TT210002]).