

Product datasheet for PH304837

OriGene Technologies, Inc.

9620 Medical Center Drive, Ste 200 Rockville, MD 20850, US Phone: +1-888-267-4436 https://www.origene.com techsupport@origene.com EU: info-de@origene.com CN: techsupport@origene.cn

DHX58 (NM_024119) Human Mass Spec Standard

Product data:

Product Type: Mass Spec Standards

Description: DHX58 MS Standard C13 and N15-labeled recombinant protein (NP_077024)

Species:HumanExpression Host:HEK293

Expression cDNA Clone

RC204837

or AA Sequence: Predicted MW:

76.6 kDa

Protein Sequence: >RC204837 protein sequence

Red=Cloning site Green=Tags(s)

MELRSYQWEVIMPALEGKNIIIWLPTGAGKTRAAAYVAKRHLETVDGAKVVVLVNRVHLVTQHGEEFRRM LDGRWTVTTLSGDMGPRAGFGHLARCHDLLICTAELLQMALTSPEEEHVELTVFSLIVVDECHHTHKDT VYNVIMSQYLELKLQRAQPLPQVLGLTASPGTGGASKLDGAINHVLQLCANLDTWCIMSPQNCCPQLQEH SQQPCKQYNLCHRRSQDPFGDLLKKLMDQIHDHLEMPELSRKFGTQMYEQQVVKLSEAAALAGLQEQRVY ALHLRRYNDALLIHDTVRAVDALAALQDFYHREHVTKTQILCAERRLLALFDDRKNELAHLATHGPENPK LEMLEKILQRQFSSSNSPRGIIFTRTRQSAHSLLLWLQQQQGLQTVDIRAQLLIGAGNSSQSTHMTQRDQ QEVIQKFQDGTLNLLVATSVAEEGLDIPHCNVVVRYGLLTNEISMVQARGRARADQSVYAFVATEGSREL KRELINEALETLMEQAVAAVQKMDQAEYQAKIRDLQQAALTKRAAQAAQRENQRQQFPVEHVQLLCINCM VAVGHGSDLRKVEGTHHVNVNPNFSNYYNVSRDPVVINKVFKDWKPGGVISCRNCGEVWGLQMIYKSVKL

PVLKVRSMLLETPQGRIQAKKWSRVPFSVPDFDFLQHCAENLSDLSLD

SGPTRTRPLEQKLISEEDLAANDILDYKDDDDK**V**

Tag: C-Myc/DDK

Purity: > 80% as determined by SDS-PAGE and Coomassie blue staining

Concentration: >0.05 μg/μL as determined by microplate BCA method

Labeling Method: Labeled with [U- 13C6, 15N4]-L-Arginine and [U- 13C6, 15N2]-L-Lysine

Buffer: 25 mM Tris-HCl, 100 mM glycine, pH 7.3

Store at -80°C. Avoid repeated freeze-thaw cycles.

Stability: Stable for 3 months from receipt of products under proper storage and handling conditions.

RefSeq: NP 077024

RefSeq Size: 2631





RefSeq ORF: 2034

Synonyms: D11LGP2; D11lgp2e; LGP2; RLR-3

Locus ID: 79132

UniProt ID: Q96C10, A0A024R1Y5

Cytogenetics: 17q21.2

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

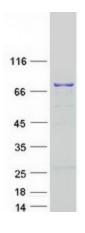
complex and could probably depend on characteristics of the infecting virus or target cells, or both. Its inhibitory action on DDX58/RIG-I signaling may involve the following mechanisms: competition with DDX58/RIG-I for binding to the viral RNA, binding to DDX58/RIG-I and inhibiting its dimerization 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 Listeria monocytogenes. 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]).