

Product datasheet for **TP511593**

Helb (NM_080446) Mouse Recombinant Protein

Product data:

Product Type:	Recombinant Proteins
Description:	Purified recombinant protein of Mouse helicase (DNA) B (Helb), with C-terminal MYC/DDK tag, expressed in HEK293T cells, 20ug
Species:	Mouse
Expression Host:	HEK293T
Expression cDNA Clone or AA Sequence:	>MR211593 representing NM_080446 Red =Cloning site Green =Tags(s)

MARQDRLRELLGPLHPYKSDDEEEDCAQEEEGEQEEEFVDAEELCSGGIKAGSLPGRARVSIPDEYTKK
CTVYGRFPLKGPWWRVKQVLPQRSRSYQVQGFPAYFLQVDMSPDQKQICSLFLKECNLASERIQEFL
KWVEKVSSFENLHFENLWETLRLFYRETEKKDKLSTPREQQGEEMRVEKSFAFISAMVALQFPKVMFL
PSLFPRHFKRLISSSDWVLGCIEDVLTQPWKLGFRRITYREMMLVRCEASWTAFSQCPSLLQLMTPLQ
KNALVIYSKLRQTCREDGHTYIEVKDLTSGLSEHMSFEEACQSLAFLKDDIDWVYKDYVFLSELVYAEQ
DIASSICELMSRPPWHLKVDVKNVLASIRGAKPNDPGSAEAVEGSKPEEVGSEQGDSVLDAQDGDHVR
NGEHVANAENDVPLDQDQVVALETICANAVTVLSGKGGCGKTTIVSRFLFKHMEHLEETEYQQACEDFEQ
DQEASEEWLDCPKQSPAGVDKAVEVLLTAPTGAAGLLRQRTDLPAYTLCQVNYFYMWKTKNEVDKPKW
FSTVRVLWVDEGLSVGIFKSVLQLLCKHSLKSLIILGDVRQLPSIEPGNMLQDVFETLKSQRCAIEL
KTNHRTESQLIVDNATRISRRQFPKFDAELNICGNPTLPLSIQDKTFIFVRLPEEDSRSQSSKGEHRSNL
YTAVKTLQKDFCSFESSKTSQFIARRQDCDLINDCCCKHYTGHLIKDHEKKLIFAVGDKICCTRNAY
LSDLLPKDQEAEGKGYGDAPDDDAKIKQDFESSTRLCNGEIFFITRDVTDVTFKRKRLLTINNEAGLEV
TVDFSKLMANCOIKHAWARTIHTFQGEENTVYVVGKAGRQHWQHVYAVTRGRSRVYIIAQESELRSA
TRKRGFPRQTRLKHFLQKKLSGSCAPSTGFASQPSSPRVGGRPDTQPPASHLCRTPDNKATADSARGDER
WLSASVNDVDVDEESAQLRGSKRIGDGFDFEESPSKFRMVEAPSPQVSSVFQNMRLNLTLPRLFKPT
DNQDTGTAGVADDANDPSNQEMEM

SGPTRTRPLEQKLISEEDLAANDILDYKDDDDKV

Tag:	C-MYC/DDK
Predicted MW:	121.5 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



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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 after receiving vials.
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_536694
Locus ID:	117599
UniProt ID:	Q6NVF4
RefSeq Size:	4540
Cytogenetics:	10 67.94 cM
RefSeq ORF:	3222
Synonyms:	AI447783; D10Ertd664e
Summary:	5'-3' DNA helicase involved in DNA damage response by acting as an inhibitor of DNA end resection (PubMed:26774285). Recruitment to single-stranded DNA (ssDNA) following DNA damage leads to inhibit the nucleases catalyzing resection, such as EXO1, BLM and DNA2, possibly via the 5'-3' ssDNA translocase activity of HELB (PubMed:26774285). As cells approach S phase, DNA end resection is promoted by the nuclear export of HELB following phosphorylation (PubMed:26774285). Acts independently of TP53BP1 (PubMed:26774285). Unwinds duplex DNA with 5'-3' polarity. Has single-strand DNA-dependent ATPase and DNA helicase activities. Prefers ATP and dATP as substrates. During S phase, may facilitate cellular recovery from replication stress (PubMed:11557815, PubMed:7596831, PubMed:7794903). [UniProtKB/Swiss-Prot Function]