

Product datasheet for **TP300371L**

DDX5 (NM_004396) Human Recombinant Protein

Product data:

Product Type:	Recombinant Proteins
Description:	Recombinant protein of human DEAD (Asp-Glu-Ala-Asp) box polypeptide 5 (DDX5), 1 mg
Species:	Human
Expression Host:	HEK293T
Expression cDNA Clone or AA Sequence:	>RC200371 protein sequence Red=Cloning site Green=Tags(s)

MSGYSSDRDRGRDRGFGAPRFGGSRAGPLSGKKFGNPGKLVKKKWNLDELPKFEKNFYQEHPDLARRTA
QEVETYRRSKEITVRGHNCPKPVLNIFYANFPANVMDVIARQNFTEPTAIQAQGWPVALSGLDMVGVAQT
GSGKTLSYLLPAIVHINHQPFLERGDGPICLVLAPTRELAQQVQVAAEYCRACRLKSTCIYGGAPKGPQ
IRDLERGVEICIATPGRLLIDFLECGKTNLRRTTYLVLDEADRMLDMGFEPQIRKIVDQIRPDRQTLMWSA
TWPKEVRQLAEDFLKDYIHINIGALELSANHNILQIVDVCHDVEKDEKLIRLMEEIMSEKENKTIVFVET
KRRCDLTRKMRRDGWPAMGIHGDKSQQERDWVLEFKHGKAPILIATDVASRGLDVEDVKFVINYDYPN
SSEDIYHRIGRTARSTKTGTAYTFFTPNNIKQVSDLVSLREANQAINPKLLQLVEDRGSGRSRGRGGMK
DDRRDRYSAGKRGGFNTFRDRENYDRGYSSLLKRFDFGAKTQNGVYSAANYTNGSFGSNFVSAGIQTSFRT
GNPTGTYQNGYDSTQQYGSNVPNMHNGMNNQAYAYPATAAAPMIGYPMPTGYSQ

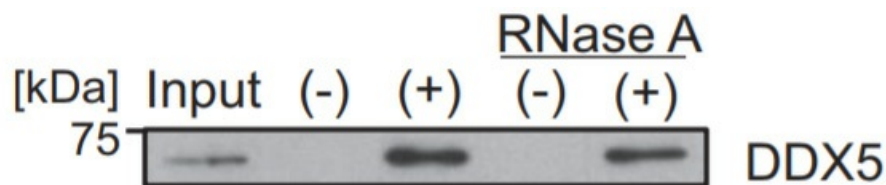
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Tag:	C-Myc/DDK
Predicted MW:	69 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
Bioactivity:	Phosphorylation substrate (PMID: 25649741) Binding assay (PMID: 27148684)
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.

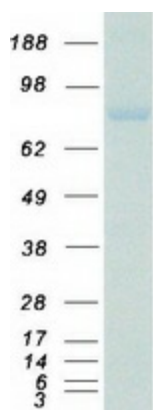


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Storage:	Store at -80°C.
Stability:	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
RefSeq:	<u>NP_004387</u>
Locus ID:	1655
UniProt ID:	<u>P17844</u>
RefSeq Size:	3769
Cytogenetics:	17q23.3
RefSeq ORF:	1842
Synonyms:	G17P1; HLR1; HUMP68; p68
Summary:	This gene encodes a member of the DEAD box family of RNA helicases that are involved in a variety of cellular processes as a result of its role as an adaptor molecule, promoting interactions with a large number of other factors. This protein is involved in pathways that include the alteration of RNA structures, plays a role as a coregulator of transcription, a regulator of splicing, and in the processing of small noncoding RNAs. Members of this family contain nine conserved motifs, including the conserved Asp-Glu-Ala-Asp (DEAD) motif, important to ATP binding and hydrolysis as well as RNA binding and unwinding activities. Dysregulation of this gene may play a role in cancer development. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Sep 2017]
Protein Pathways:	Spliceosome

Product images:


DDX5 binds to resveratrol regardless of the digestion of RNA by RNase A treatment. Purified recombinant DDX5 (1 ug) (OriGene [TP300371]) with or without RNase A treatment was incubated with the resveratrol-immobilized beads, and the bound DDX5 was detected by Western blotting. The input lane corresponds to recombinant DDX5 protein (150 ng). Figure cited from Cell Death Dis, PMID: 27148684



Coomassie blue staining of purified DDX5 protein (Cat# [TP300371]). The protein was produced from HEK293T cells transfected with DDX5 cDNA clone (Cat# [RC200371]) using MegaTran 2.0 (Cat# [TT210002]).