

Active Recombinant Full Length Human DDX5 Protein, C-Flag-tagged

Cat. No. DDX5-49HFL Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant Full Length Human DDX5 Protein, fused to Flag-tag at C-terminus, was expressed in Mammalian cells.
Species	Human
Source	Mammalian Cells
Description	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.
Form	25 mM Tris HCl, pH 7.3, 100 mM glycine, 10% glycerol.
Bio-activity	Phosphorylation substrate Binding assay
Molecular Mass	69 kDa

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AA Sequence

MSGYSSDRDRGRDRGFGAPRFGGSRAGPLSGKKFGNPGEKLVKKKWNLDELPKF
 EKNFYQEHPDLARRTA QEVETYRRSKEITVRGHNCPPVLFNFYEANFPANVMDVIA
 RQNFTEPTAIQAQGWPVALSGLDMVGVAQT GSGKTL SYLLPAIVHINHQPFLERGD
 GPICLVLAPTRELAQQVQQVAAEYCRACRLKSTCIYGGAPKGPQ IRDLERGVEICIAT
 PGR LIDFLECGKTNLRRTTYLV LDEADRMLDMGFEPQIRKIVDQIRPDRQTL MWSA T
 WPKEVRQLAEDFLKDYIHINIGALELSANHNILQIVDVCHDVEKDEKLIRLMEEIMSEK
 ENKTIVFVET KRRCDDELTRKMRRDGWPAMGIHGDKSQQERDWVLNEFKH GKAPILI
 ATDVASRGLDVEDVKFVINYDYPN SSEDYIHRIGRTARSTKTGTAYTFFTPNNIKQVS
 DLISVLREANQAINPKLLQLVEDRGSGRSRGRGGMK DRRDRYSAGKRGGFNTFR
 DRENYDRGYSSLLKRDFGAKTQNGVYSAANYTNGSFSGSNFVSAGIQTSFRT
 GNPTGTYQNGYDSTQQYGSNVPNMHNGMNQQAYAYPATAAAPMIGYPMPTGYSQ
 TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Purity

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

Stability

Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.

Storage

Store at -80 centigrade.

Concentration

>50 ug/mL as determined by microplate BCA method.

Preparation

Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.

Protein Pathways

Spliceosome

Full Length

Full L.

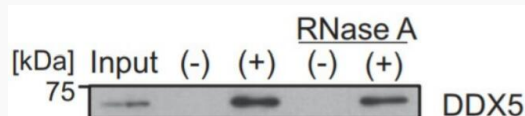
GENE INFORMATION

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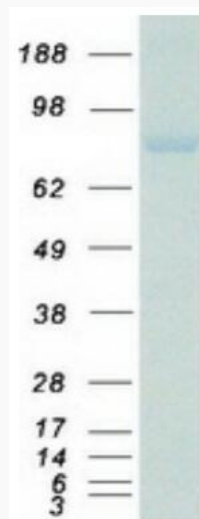
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Gene Name	DDX5 DEAD-box helicase 5 [Homo sapiens (human)]
Official Symbol	DDX5
Synonyms	p68; HLR1; G17P1; HUMP68
Gene ID	1655
mRNA Refseq	NM_004396.5
Protein Refseq	NP_004387.1
MIM	180630
UniProt ID	P17844



DDX5 binds to resveratrol regardless of the digestion of RNA by RNase A treatment. Purified recombinant DDX5 (1 ug) 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).



Coomassie blue staining of purified DDX5 protein.

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