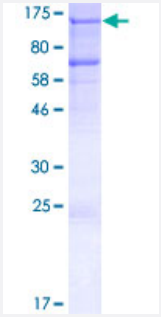
Full-Length

RBBP8 (Human) Recombinant Protein (P01)

Catalog # H00005932-P01 Size 25 ug, 10 ug

Applications



Specification

Product Description	Human RBBP8 full-length ORF (NP_002885.1, 1 a.a. - 897 a.a.) recombinant protein with GST-tag at N-terminal.
Sequence	MNISGSSCGSPNSADTSSDFKDLWTKLKECHDREVQGLQVKVTKLKQERILDAQRLEEFFTKNQ QLREQQKVLHETIKVLEDRLRAGLCDRCAVTEEHMRKKQQEFENIRQQNLKLITELMNERNTLQEE NKKLSEQLQQKIENDQQHQAAELECEEDVIPDSPITAFSFSGVNRLRRKENPHVRYIEQTHTKLEH SVCANEMRKVSKSSTHPQHNPNENEILVADTYDQSQSPMAKAHGTSSYTPDKSSFNLATVVAET LGLGVQEESETQGPMSPLGDELYHCLEGNHKKQPFEESTRNTEDSLRFSDSTSKTPPQEELPTR VSSPVFGATSSIKSGLDLNTSLSPSLLQPGKKKHLKTLPFSNTCISRLEKTRSKSEDSALFTHHSL GSEVNKIIIQSSNKQILINKNISESLGEQNRTEYGKDSNTDKHLEPLKSLGGRTSKRKKTEEESEHEV SCPQASFDKENAFPFPMDNQFSMNGDCVMDKPLDLSDRFSAIQRQEKSQGSETSKNKFRQVTL YEALKTIPKGFSSSRKASDGNCTLPKDSPGEPCSQECIILQPLNKCSPDNKPSLQIKEENAVFKIPL RPRESLETENVLDDIKSAGSHEPIKIQTRSDHGGCELASVLQLNPCRTGKIKSLQNNQDVSFENIQ WSIDPGADLSQYKMDVTVIDTKDGSQSKLGGETVDMDCTLVSETVLLKMKKQEQKGEKSSNEE RKMNDSLEDMFDRTTHEEYESCLADSFSQAADEEEELSTATKKLHTHGDKQDKVKQKAFVEPY FKGDERETSLQNFPHIEVVRKKEERRKLLGHTCKECEIYYADMPAEEREKKLASCSRHRFRYIPPN TPENFWEVGFPSTQTCMERGYIKEDLDPCPRPKRRQPYNAIFSPKGKEQKT
Host	Wheat Germ (in vitro)
Theoretical MW (kDa)	128.3
Interspecies Antigen Sequence	Mouse (76); Rat (75)

Preparation Method	*in vitro* wheat germ expression system
Purification	Glutathione Sepharose 4 Fast Flow
Quality Control Testing	12.5% SDS-PAGE Stained with Coomassie Blue.
Storage Buffer	50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.
Storage Instruction	Store at -80°C. Aliquot to avoid repeated freezing and thawing.
Note	Best use within three months from the date of receipt of this protein.

Applications

- Enzyme-linked Immunoabsorbent Assay
- Western Blot (Recombinant protein)
- Antibody Production
- Protein Array

Gene Info — RBBP8

Entrez GeneID	5932
GeneBank Accession#	NM_002894.2
Protein Accession#	NP_002885.1
Gene Name	RBBP8
Gene Alias	CTIP, RIM
Gene Description	retinoblastoma binding protein 8
Omim ID	604124
Gene Ontology	Hyperlink

Gene Summary	The protein encoded by this gene is a ubiquitously expressed nuclear protein. It is found among s everal proteins that bind directly to retinoblastoma protein, which regulates cell proliferation. This protein complexes with transcriptional co-repressor CTBP. It is also associated with BRCA1 and is thought to modulate the functions of BRCA1 in transcriptional regulation, DNA repair, and/or cel l cycle checkpoint control. It is suggested that this gene may itself be a tumor suppressor acting in the same pathway as BRCA1. Three transcript variants encoding two different isoforms have bee n found for this gene. More transcript variants exist, but their full-length natures have not been dete rmined. [provided by RefSeq
Other Designations	CTBP-interacting protein|retinoblastoma-binding protein 8|retinoblastoma-interacting myosin-like

Publication Reference

- SUMOylation mediates CtIP's functions in DNA end resection and replication fork protection.

  Andrew J Locke, Lazina Hossain, Glynnis McCrostie, Daryl A Ronato, Amira Fitieh, Tanzeem Ahmed Rafique, Fatemeh Mashayekhi, Mobina Motamedi, Jean-Yves Masson, Ismail Hassan Ismail.

  Nucleic Acids Research 2021 Jan; 49(2):928.

  Application : PI, WB-Re, Recombinant proteins

- FANCD2 Binds CtIP and Regulates DNA-End Resection during DNA Interstrand Crosslink Repair.

  Unno J, Itaya A, Taoka M, Sato K, Tomida J, Sakai W, Sugasawa K, Ishiai M, Ikura T, Isobe T, Kurumizaka H, Takata M.

  Cell Reports 2014 May; 7(4):1039.

Disease

- Adenocarcinoma
- Breast cancer
- Breast Neoplasms
- Diabetes Mellitus
- Genetic Predisposition to Disease
- Ovarian cancer
- Ovarian Neoplasms
- Pancreatic Neoplasms
- Retinoblastoma