

Recombinant Human HNRNPU Protein, GST-tagged

Cat. No. HNRNPU-4907H Lot. No. (See product label)

SPECIFICATION

Product Overview Human HNRNPU full-length ORF (NP_114032.2, 1 a.a. - 825 a.a.) recombinant protein with GST-tag at N-terminal.

Species Human

Source Wheat Germ

Description

This gene belongs to the subfamily of ubiquitously expressed heterogeneous nuclear ribonucleoproteins (hnRNPs). The hnRNPs are RNA binding proteins and they form complexes with heterogeneous nuclear RNA (hnRNA). These proteins are associated with pre-mRNAs in the nucleus and appear to influence pre-mRNA processing and other aspects of mRNA metabolism and transport. While all of the hnRNPs are present in the nucleus, some seem to shuttle between the nucleus and the cytoplasm. The hnRNP proteins have distinct nucleic acid binding properties. The protein encoded by this gene contains a RNA binding domain and scaffold-associated region (SAR)-specific bipartite DNA-binding domain. This protein is also thought to be involved in the packaging of hnRNA into large ribonucleoprotein complexes. During apoptosis, this protein is cleaved in a caspase-dependent way. Cleavage occurs at the SALD site, resulting in a loss of DNA-binding activity and a concomitant detachment of this protein from nuclear structural sites. But this cleavage does not affect the function of the encoded protein in RNA metabolism. At least two alternatively spliced transcript variants have been identified for this gene. [provided by RefSeq]

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Molecular Mass	117 kDa
AA Sequence	<p>MSSSPVNVKCLKVSELKEELKKRRLSDKGLKAELMERLQAALDDEEAGGRPAMEPG NGSLDLGGDSAGRSGAGLEQEAAAGGDEEEEEEEEEEEEGISALDGDQMELGEENG AAGAADSGPMEEEEEAAASEDENGDDQGFQEGEDELGDEEEGAGDENGHGEEQQPQ PPATQQQQPQQQRGAAKEAAGKSSGPTSLFAVTVAPPGARQQQQAGGKKAEG GGGGGRPGAPAAGDGKTEQKGGDKKRGVKRPREDHGRGYFEYIEENKYSRAKSP QPPVEEEDHFD DTVVCLDTYNCDLHFKISRDRLSASSLTMESFAFLWAGGRASYG VSKGKVCFEMKVTEKIPVRHLYTKDIDIHEVRIGWSLTTSGMLLGEEEF SYGYSLKGI KTCNCETEDYGEKFDENDVITCFANFESDEVELSYAKNGQDLGVAFKISKEVLAGRP LFPHVLCHNCAVEFNFQKEKPYFPIPEEYTFIQNVPLEDRVRGPKGPEEKKDCEVV MMIGLPGAGKTTWVTKHAAENPGKYNILGTNTIMDKMMVAGFKKQMATDGLNLL QRAPQCLGKFIEIAARKKRNFIELDQTNVAAAQRRKMCLFAGFQRKAVVCPKDEDY KQRTQKKAEEVEGKDLPEHAVLKMKGNTLPEVAECFDEITYVELQKEEAQKLEQYK EESKKALPPEKKQNTGSKKSNKNKSGKNQFNRRGGGHRGRGGFNMRGGNFRGGA PGNRGGYNRRGNMPQRGGGGGGSGGIGYPYPRAPVFPGRGSYSNRGNYNRGG MPNRGNYNQNRGRGNRNGYKNQSQGYNQWQQGQFWGQKPWSQHYHQGY</p>
Applications	<p>Enzyme-linked Immunoabsorbent Assay Western Blot (Recombinant protein) Antibody Production Protein Array</p>
Notes	Best use within three months from the date of receipt of this protein.
Storage	Store at -8 centigrade. Aliquot to avoid repeated freezing and thawing.
Storage Buffer	50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.

GENE INFORMATION

Gene Name	HNRNPU heterogeneous nuclear ribonucleoprotein U (scaffold attachment factor A) [Homo sapiens]
Official Symbol	HNRNPU
Synonyms	HNRNPU; heterogeneous nuclear ribonucleoprotein U (scaffold attachment factor A); HNRPU; heterogeneous nuclear ribonucleoprotein U; hnRNPU; SAF A; pp120; p120 nuclear protein; scaffold attachment factor A; SAF-A; U21.1; hnRNP U;
Gene ID	3192
mRNA Refseq	NM_004501
Protein Refseq	NP_004492
MIM	602869
UniProt ID	Q00839

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