

Active Recombinant Full Length Human CAPRIN1 Protein, C-Flag-tagged

Cat. No. CAPRIN1-283HFL **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Full Length Human CAPRIN1 Protein, fused to Flag-tag at C-terminus, was expressed in Mammalian cells.
Species	Human
Source	Mammalian Cells
Description	May regulate the transport and translation of mRNAs of proteins involved in synaptic plasticity in neurons and cell proliferation and migration in multiple cell types. Binds directly and selectively to MYC and CCND2 RNAs. In neuronal cells, directly binds to several mRNAs associated with RNA granules, including BDNF, CAMK2A, CREB1, MAP2, NTRK2 mRNAs, as well as to GRIN1 and KPNB1 mRNAs, but not to rRNAs.
Form	25 mM Tris HCl, pH 7.3, 100 mM glycine, 10% glycerol.
Bio-activity	Co-immunoprecipitation
Molecular Mass	78.2 kDa
AA Sequence	MPSATSHSGSGSKSSGPPPPSGSSGSEAAAGAGAAAPASQHPATGTGAVQTEAM KQILGVIDKKLRNLEK KKGKDDYQERMNKGRLNQDQLDAVSKYQEVTTNNLEFAK ELQRSFMALSQDIQKTIKKTARREQLMREE AEQKRLKTVLELQYVLDKLGDDDEVRT DLKQGLNGVPILSEEELSLDEFYKLVDPERDMSLRLNEQYEHA SIHLWDLLEGKEK PVCGTTYKVLKEIVERVFQSNYFDSTHNHQNLCEEEEAASAPAVEDQVPEAEPEP

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 45-1 Ramsey Road, Shirley, NY 11967, USA

A EEYTEQSEVEST EYVNRQFMAETQFTSGEKEQVDEWTVETVEVVNSLQQQPQA
 ASPSVPEPHSLTPVAQA DPLVRRQRVQDLMAQMGGPYNFIQDSMLDFENQTLDP
 IVSAQPMNPTQNMDMPQLVCPVHSESRLAQP NQVPVQPEATQVPLVSSTSEGYT
 ASQPLYQPSHATEQRPQKEPIDQIATISLNTDQTTASSSLPAASQP QVFQAGTSKP
 LHSSGINVNAAPFQSMQTVFNMNAPVPPVNEPETLKQQNQYQASYNQSFSSQPHQ
 VEQTE LQQEQLQTVVGTYHGSPDQSHQVTGNHQPPQQNTGFPRSNQPYNSR
 GVSRRGSRGARGLMNGYRGPAN GFRGGYDGYRPSFSNTPNSGYTQSQFSAPRD
 YSGYQRDGYQQNFKRSGSGQSGPRGAPRGRGGPPRPNRGM
 PQMNTQQVNTRTRPLEQKLISEEDLAANDILDYKDDDDKV

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.
Full Length	Full L.

GENE INFORMATION

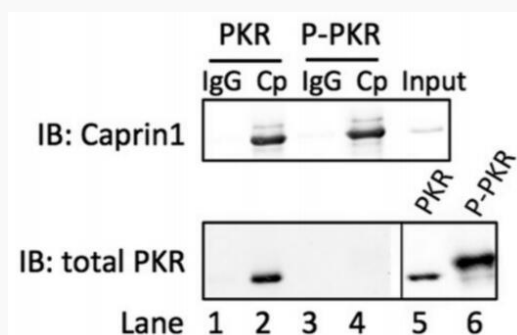
Gene Name	CAPRIN1 cell cycle associated protein 1 [Homo sapiens (human)]
Official Symbol	CAPRIN1
Synonyms	M11S1; GPIAP1; RNG105; GPIP137; GRIP137; p137GPI

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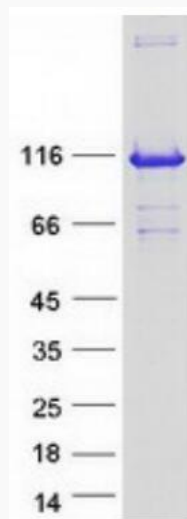
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Gene ID	4076
mRNA Refseq	NM_005898.5
Protein Refseq	NP_005889.3
MIM	601178
UniProt ID	Q14444



Caprin1 interacts with inactive PKR. Purified Caprin1 was incubated with inactive PKR (PKR) or active PKR (P-PKR), immunoprecipitated with either nonspecific IgG or caprin1 antibodies, and analyzed by Western blotting for caprin1 or total PKR with corresponding antibodies.



Coomassie blue staining of purified CAPRIN1 protein.

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