

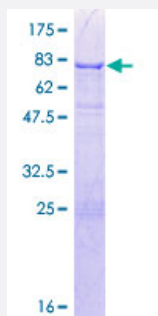
Full-Length

CUGBP1 (Human) Recombinant Protein (P01)

Catalog # H00010658-P01

Size 25 ug, 10 ug

Applications



Specification

Product Description

Human CUGBP1 full-length ORF (NP_941989.1, 1 a.a. - 483 a.a.) recombinant protein with GST-tag at N-terminal.

Sequence

MNGTLDHPDQPDLDIAKMFVGVQVPRTWSEKDLRELFEQYGAVYEINVLRDRSQNPPQSKGCCFV
TFYTRKAALAEQNALHNMKVLPGMHHPIQMKPADSEKNNAVEDRKLFIGMISKKCTENDIRVMFS
SFGQIEECRILRGPDGLSRGCAFVTFTRAMAQTAIKAMHQAQTMEGCSSPMVVKFADTQKDKE
QKRMAQQLQQMQQISAASVWGNLAGLNTLGPQYLALLQQTASSGNLNTLSSLHPMGGLNAMQ
LQNLAALAAAASAAQNTPSGTNALTSSSPLSVLTSSAGSSPSSSSSSNSVNPIASLGALQTLAGA
TAGLNVGSLAGMAALNGGLGSSGLSNGTGSTMEALTQAYSGIQQYAAAAALPTLYNQNLTTQQSIG
AAGSQKEGPEGANLFYHLPQEFQDQDLLQMFMPFGNVVSAKVFDKQTNLSKCFGFVSYDNPV
SAQAAIQSMNGFQIGMKRLKVQLKRSKNDSKPY

Host

Wheat Germ (in vitro)

Theoretical MW (kDa)

78

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 — CUGBP1

Entrez GeneID[10658](#)**GeneBank Accession#**[NM_198700.1](#)**Protein Accession#**[NP_941989.1](#)**Gene Name**

CUGBP1

Gene Alias

BRUNOL2, CUG-BP, CUGBP, NAB50, hNab50

Gene Description

CUG triplet repeat, RNA binding protein 1

Omim ID[601074](#)**Gene Ontology**[Hyperlink](#)**Gene Summary**

Members of the CELF/BRUNOL protein family contain two N-terminal RNA recognition motif (RRM) domains, one C-terminal RRM domain, and a divergent segment of 160-230 aa between the second and third RRM domains. Members of this protein family regulate pre-mRNA alternative splicing and may also be involved in mRNA editing, and translation. This gene may play a role in myotonic dystrophy type 1 (DM1) via interactions with the dystrophin myotonic-protein kinase (DMPK) gene. Alternative splicing results in multiple transcript variants encoding different isoforms. [provided by RefSeq]

Other Designations

CUG RNA-binding protein|CUG triplet repeat, RNA-binding protein 1|bruno-like 2|nuclear polyadenylated RNA-binding protein, 50-kD

Publication Reference

- [Splice-switching of the insulin receptor pre-mRNA alleviates tumorigenic hallmarks in rhabdomyosarcoma.](#)

Safiya Khurshid, Matias Montes, Daniel F Comiskey Jr, Brianne Shane, Eleftheria Matsa, Francesca Jung, Chelsea Brown, Hemant Kumar Bid, Ruoning Wang.

NPJ Precision Oncology 2022 Jan; 6(1):1.

Application: GSA, N/A, RNA probe

- [miR-574-5p as RNA decoy for CUGBP1 stimulates human lung tumor growth by mPGES-1 induction.](#)

Saul MJ, Baumann I, Bruno A, Emmerich AC, Wellstein J, Ottinger SM, Contursi A, Dovizio M, Donnini S, Tacconelli S, Raouf J, Idborg H, Stein S, Korotkova M, Savai R, Terzuoli E, Sala G, Seeger W, Jakobsson PJ, Patrignani P, Suess B, Steinhilber D.

FASEB Journal 2019 Jun; 33(6):6933.

Application: Func, Human, A-549 cells

- [Competitive binding of CUGBP1 and HuR to occludin mRNA controls its translation and modulates epithelial barrier function.](#)

Yu TX, Rao JN, Zou T, Liu L, Xiao L, Ouyang M, Cao S, Gorospe M, Wang JY.

Molecular Biology of the Cell 2013 Jan; 24(2):85.

Application: WB, Human, Caco-2 cells