

PCBP2 (Human) Recombinant Protein (Q01)

Catalog # H00005094-Q01

Size 25 ug, 10 ug

Applications



Specification

Product Description	Human PCBP2 partial ORF (NP_114366, 174 a.a. - 283 a.a.) recombinant protein with GST-tag at N-terminal.
Sequence	VTIPYRPKPSSSPVIFAGGQDRYSTGSDSASFPHHTTPSMCLNPDLEGPPLEAYTIQGQYAIPQPDLT KLHQLAMQQSHFPMTHGNTGFSGIESSSPEVKGYWAGLDASAQ
Host	Wheat Germ (in vitro)
Theoretical MW (kDa)	37.84
Interspecies Antigen Sequence	Mouse (100); Rat (99)
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 — PCBP2

Entrez GeneID [5094](#)

GeneBank Accession# [NM_031989](#)

Protein Accession# [NP_114366](#)

Gene Name PCBP2

Gene Alias HNRPE2, MGC110998, hnRNP-E2

Gene Description poly(rC) binding protein 2

Omim ID [601210](#)

Gene Ontology [Hyperlink](#)

Gene Summary

The protein encoded by this gene appears to be multifunctional. Along with PCBP-1 and hnRNP-K, it is one of the major cellular poly(rC)-binding proteins. The encoded protein contains three K-homologous (KH) domains which may be involved in RNA binding. Together with PCBP-1, this protein also functions as a translational coactivator of poliovirus RNA via a sequence-specific interaction with stem-loop IV of the IRES, promoting poliovirus RNA replication by binding to its 5'-terminal cloverleaf structure. It has also been implicated in translational control of the 15-lipoxygenase mRNA, human papillomavirus type 16 L2 mRNA, and hepatitis A virus RNA. The encoded protein is also suggested to play a part in formation of a sequence-specific alpha-globin mRNP complex which is associated with alpha-globin mRNA stability. This multiexon structural mRNA is thought to be retrotransposed to generate PCBP-1, an intronless gene with functions similar to that of PCBP2. This gene and PCBP-1 have paralogous genes (PCBP3 and PCBP4) which are thought to have arisen as a result of duplication events of entire genes. This gene also has two processed pseudogenes (PCBP2P1 and PCBP2P2). Multiple transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq]

Other Designations alpha-CP2|heterogenous nuclear ribonucleoprotein E2