

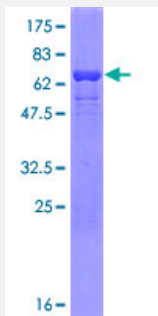
Full-Length

PCBP1 (Human) Recombinant Protein (P01)

Catalog # H00005093-P01

Size 25 ug, 10 ug

Applications



Specification

Product Description

Human PCBP1 full-length ORF (NP_006187.1, 1 a.a. - 356 a.a.) recombinant protein with GST-tag at N-terminal.

Sequence

MDAGVTESGLNVTLTIRLLMHGKEVGSIIIGKKGESVKRIREESGARINISEGNCPERIITLTGPTNAIFK
AFAMIIDKLEEDINSSMTNSTAASRPPVTLRLVVPATQCGSLIGKGGCKIKEIRESTGAQVQVAGDM
LPNSTERAITAGVPQSVTECVKQICLVMLETLISQSPQGRVMTIPYQMPASSPVICAGGQDRCSD
AVGYPHATHDLEGPPLDAYSIIQQHTISPLDLAKLNQVARQQSHFAMMHGGTGFAIDSSSPEVK
GYWASLDASTQTTHELTIPNNLIGCIIGRQGANINEIRQMGAQIKIANPVEGSSGRQVTITGSAASISL
AQYLINARLSSEKGMGCS

Host

Wheat Germ (in vitro)

Theoretical MW (kDa)

63.9

Interspecies Antigen Sequence

Mouse (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 — PCBP1

Entrez GeneID[5093](#)**GeneBank Accession#**[NM_006196.2](#)**Protein Accession#**[NP_006187.1](#)**Gene Name**

PCBP1

Gene Alias

HNRPE1, HNRPX, hnRNP-E1, hnRNP-X

Gene Description

poly(rC) binding protein 1

Omim ID[601209](#)**Gene Ontology**[Hyperlink](#)**Gene Summary**

This intronless gene is thought to have been generated by retrotransposition of a fully processed PCBP-2 mRNA. This gene and PCBP-2 have paralogues (PCBP3 and PCBP4) which are thought to have arisen as a result of duplication events of entire genes. The protein encoded by this gene appears to be multifunctional. It along with PCBP-2 and hnRNPK corresponds to the major cellular poly(rC)-binding protein. It contains three K-homologous (KH) domains which may be involved in RNA binding. This encoded protein together with PCBP-2 also functions as translational coactivators of poliovirus RNA via a sequence-specific interaction with stem-loop IV of the IRES and promote 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. [provided by RefSeq]

Other Designations

alpha-CP1|heterogeneous nuclear ribonucleoprotein E1|heterogenous nuclear ribonucleoprotein E1|heterogenous nuclear ribonucleoprotein X|nucleic acid binding protein sub 2.3
