

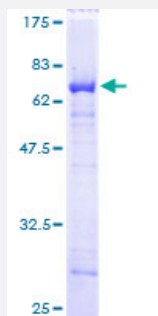
Full-Length

## PCBP2 (Human) Recombinant Protein (P01)

Catalog # H00005094-P01

Size 25 ug, 10 ug

### Applications



### Specification

#### Product Description

Human PCBP2 full-length ORF ( AAH01155, 1 a.a. - 362 a.a.) recombinant protein with GST-tag at N-terminal.

#### Sequence

MDTGVIEGGLNVTLTIRLLMHGKEVGSIIKKKGESVKKMREESGARINISEGNCPERITLAGPTNAIF  
KAFAMIIDKLEEDISSMTNSTAASRPVTLRLVVPASQCGSLIGKGGCKIKEIRESTGAQVQVAGD  
MLPNSTERAITIAGIPQSIIECVKQICVVMLESPPKGV TIPYRKPSSSPVIFAGGQDRYSTGSDSAS  
FPHTTSPMCLNPDLEGPPLEAYTIQGQYAIQPD LTKLHQLAMQQSHFPMTHGNTGFSGIESSSPE  
VKG YWAGLDASAQTTSHELTIPNDLIGCIIGRQGAKINEIRQM SGAQIKIANPVEGSTDRQVTITGSAA  
SISLAQYLINVRLSSETGGMGSS

#### Host

Wheat Germ (in vitro)

#### Theoretical MW (kDa)

65.56

#### 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#**[BC001155](#)**Protein Accession#**[AAH01155](#)**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

## Publication Reference

- [Binding of microRNA-122 to the hepatitis C virus 5' untranslated region modifies interactions with poly\(C\) binding protein 2 and the NS5B viral polymerase.](#)

Seth Scott, You Li, Oya Bermek, Jack D Griffith, Stanley M Lemon, Kyung H Choi.

Nucleic Acids Research 2023 Dec; 51(22):12397.

Application: Pull-Down, N/A, Recombinant proteins

- [TRIB2 modulates proteasome function to reduce ubiquitin stability and protect liver cancer cells against oxidative stress.](#)

Susu Guo, Yuxin Chen, Yueyue Yang, Xiao Zhang, Lifang Ma, Xiangfei Xue, Yongxia Qiao, Jiayi Wang.

Cell Death & Disease 2021 Jan; 12(1):42.

Application: PI, WB-Re, Recombinant proteins

- [CCT3 acts upstream of YAP and TECP2 as a potential target and tumour biomarker in liver cancer.](#)

Liu Y, Zhang X, Lin J, Chen Y, Qiao Y, Guo S, Yang Y, Zhu G, Pan Q, Wang J, Sun F.

Cell Death & Disease 2019 Sep; 10(9):644.

Application: IF, IP-WB, WB-Tr, Human, Bel-7402, SMMC-7721 cells

- [A Combined ELONA-\(RT\)qPCR Approach for Characterizing DNA and RNA Aptamers Selected against PCBP-2.](#)

Moreno M, Fernández-Algar M, Fernández-Chamorro J, Ramajo J, Martínez-Salas E, Briones C.

Molecules (Basel, Switzerland) 2019 Mar; 24(7):E1213.

Application: Func, RNA aptamers

- [Versatile Graphene-Based Platform for Robust Nanobiohybrid Interfaces.](#)

Bueno R, Marciello M, Moreno M, Sánchez-Sánchez C, Martínez JI, Martínez L, Prats-Alfonso E, Guimerà-Brunet A, Garrido JA, Villa R, Mompean F, García-Hernandez M, Huttel Y, Del Puerto Morales M, Briones C, López MF, Ellis GJ, Vázquez L, Martín-Gago JA.

ACS Omega 2019 Feb; 4(2):3287.

Application: Aptamer-modified graphene surface, N/A, Recombinant protein

- [Poly\(C\)-binding protein 2 Interacts with sequences Required for Viral Replication in HCV 5' UTR and Directs HCV RNA Replication through Circularizing the Viral Genome.](#)

Wang L, Jeng KS, Lai MM.

J Virol 2011 Jun; 85:7954.

Application: Func, Huh-7 RNA