

Recombinant Full Length Human PCBP2 Protein

Cat. No. PCBP2-361HF **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant full length Human PCBP2/hnRNP E2 with a N terminal proprietary tag; Predicted MWt 65.93 kDa.
Species	Human
Source	In Vitro Cell Free System
ProteinLength	365 amino acids
Description	The protein encoded by this gene appears to be multifunctional. Along with PCBP-1 and hnRNPK, 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

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different isoforms have been found for this gene.

Form	Liquid
Molecular Mass	65.930kDa inclusive of tags
AA Sequence	MDTGVIEGGLNVTLTIRLLMHGKEVGSIIIGKKGESVKKMR EESGARINISEGNCPERII TLAGPTNAIFKAFAMIIDKLE EDISSMTNSTAASRPPVTLRLVVPASQCGSLIGKGG CKI KEIRESTGAQVQVAGDMLPNSTERAITIAGIPQSIIECVK QICVVMLESPPKGVTI PYRPKPSSSPVIFAGGQDRYSTGS DSASFPHTTPSMCLNPDLEGPPLEAYTIQGQY AIPQPDLT KLHQLAMQQSHFPMTHGNTGFSGIESSSPEVKGYWAGLDA SAQTTS ELTIPNDLIGCIIGRQGAKINEIRQMSGAQIKI ANPVEGSTDRQVTITGSAASISLAQYLI NVRLSSETGGMG SS
Purity	Proprietary Purification
Storage	Shipped on dry ice. Upon delivery aliquot and store at -80 centigrade. Avoid freeze / thaw cycles.
Storage Buffer	pH: 8.00. Constituents:0.79% Tris HCl, 0.31% Glutathione.

GENE INFORMATION

Gene Name	PCBP2 poly(rC) binding protein 2 [Homo sapiens]
Official Symbol	PCBP2
Synonyms	PCBP2; poly(rC) binding protein 2; poly(rC)-binding protein 2; heterogenous nuclear ribonucleoprotein E2; hnRNP E2; HNRPE2
Gene ID	5094

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mRNA Refseq	NM_001098620
Protein Refseq	NP_001092090
MIM	601210
UniProt ID	Q15366

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