

Active Recombinant Full Length Human PCBP2 Protein, C-Flag-tagged

Cat. No. PCBP2-412HFL **Lot. No.** (See product label)

SPECIFICATION

Product Overview

Recombinant Full Length Human PCBP2 Protein, fused to Flag-tag at C-terminus, was expressed in Mammalian cells.

Species

Human

Source

Mammalian Cells

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 different isoforms have been found for this gene.

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Form	25 mM Tris HCl, pH 7.3, 100 mM glycine, 10% glycerol.
Bio-activity	Pull-down assay
Molecular Mass	38.5 kDa
AA Sequence	MDTGVIEGGLNVTLTIRLLMHGKEVGSIIIGKKGESVKKMREESGARINISEGNCPERII TLAGPTNAIFK AFAMIIDKLEEDISSSMTNSTAASRPPVTLRLVVPASQCGSLIGKGG CKIKEIRESTGAQVQVAGDMLPN STERAITAGIPQSIIECVKQICVVMLETLSQSPPK GVTIPYRPKPSSSPVIFAGGQDRYSTGSDSASFP HTTPSMCLNPDLEGPPLEAYTIQ GQYAIPQPDLTKLHQLAMQQSHFPMTHGNTGFSGIESSSPEVKGYWA GLDASAQT TSHELTIPNDLIGCIIGRQGAKINEIRQMSGAIKIANPVEGSTDRQVTITGSAASISLA QY LINVRLSSETGGMGSSSTRTRPLEQKLISEEDLAANDILDYKDDDDKV
Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining.
Stability	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
Storage	Store at -80 centigrade.
Concentration	>50 ug/mL as determined by microplate BCA method.
Preparation	Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.
Full Length	Full L.

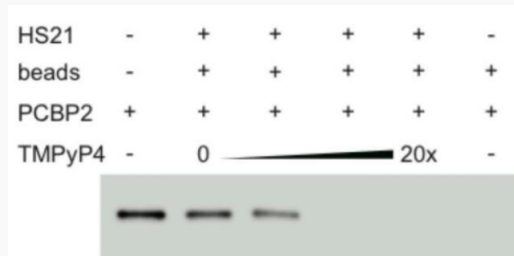
GENE INFORMATION

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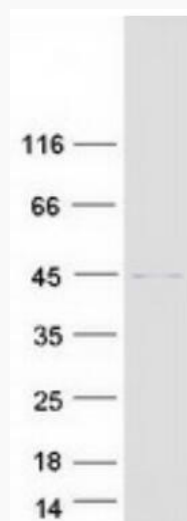
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Gene Name	PCBP2 poly(rC) binding protein 2 [Homo sapiens (human)]
Official Symbol	PCBP2
Synonyms	HNRPE2; HNRNPE2; hnRNP-E2
Gene ID	5094
mRNA Refseq	NM_005016.6
Protein Refseq	NP_005007.2
MIM	601210
UniProt ID	Q15366



The i-motif stabilizing ligand (TMPyP4) displaces telomere-associated human poly-C binding protein (PCBP) from human C-rich telomeric DNA. Biotinylated C-rich telomeric DNA HS21 oligo was bound to streptavidin magnetic beads and incubated with PCBP2 in the absence or presence of TMPyP4 at different concentrations. The bound PCBP2 was eluted and analyzed in Western blot with an anti-PCBP2 antibody.



Coomassie blue staining of purified PCBP2 protein.

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