

Recombinant Human PCBP1 Protein, Myc/DDK-tagged, C13 and N15-labeled

Cat. No. PCBP1-3392H Lot. No. (See product label)

SPECIFICATION

Product Overview	PCBP1 MS Standard C13 and N15-labeled recombinant protein (NP_006187) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.
Species	Human
Source	HEK293
Description	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.
Molecular Mass	37.5 kDa

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

AA Sequence	MDAGVTESGLNVTLTIRLLMHGKEVGSIIIGKKGESVKRIEESGARINISEGNCPERII TLTGPTNAIFKAFAMIIDKLEEDINSSMTNSTAASRPPVTLRLVVPATQCGSLIGKGGC KIKEIRESTGAQVQVAGDMLPNSTERAITIAGVPQSVTECVKQICLVMLETLSQSPQG RVMTIPYQMPASSPVICAGGQDRCSAAGYPHATHDLEGPPLDAYSIQGQHTISPL DLAKLNQVARQQSHFAMMHGGTGFAIDSSSPEVKGYWASLDASTQTTHELTIPNN LIGCIIGRQGANINEIRQMSGAIKIANPVEGSSGRQVTITGSAASISLAQYLINARLSS EKGMGCSTRTRPLEQKLISEEDLAANDILDYKDDDDKV
Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining
Stability	Stable for 3 months from receipt of products under proper storage and handling conditions.
Storage	Store at -80 centigrade. Avoid repeated freeze-thaw cycles.
Concentration	50 µg/mL as determined by BCA
Storage Buffer	100 mM glycine, 25 mM Tris-HCl, pH 7.3.
GENE INFORMATION	
Gene Name	PCBP1 poly(rC) binding protein 1 [Homo sapiens (human)]
Official Symbol	PCBP1
Synonyms	PCBP1; poly(rC) binding protein 1; poly(rC)-binding protein 1; heterogeneous nuclear ribonucleoprotein E1; hnRNP E1; hnRNP X; HNRPE1; HNRPX; alpha-CP1; nucleic acid-binding protein SUB2.3; heterogenous nuclear ribonucleoprotein X; heterogenous nuclear ribonucleoprotein E1; hnRNP-X; hnRNP-E1;
Gene ID	5093

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mRNA Refseq NM_006196

Protein Refseq NP_006187

MIM 601209

UniProt ID Q15365

SDS-PAGE



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