Recombinant Human PCBP2 Protein, Myc/DDK-tagged, C13 and N15-labeled

Cat. No. PCBP2-3834H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	PCBP2 MS Standard C13 and N15-labeled recombinant protein (NP_001092090) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.
Species	Human
Source	HEK293
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.

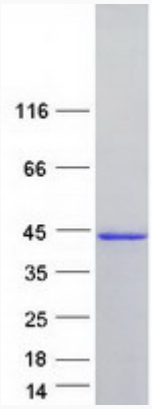
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Molecular Mass	34.7 kDa
AA Sequence	MDTGVIEGGLNVTLTIRLLMHGKEVGSIIGKKGESVKKMREESGARINISEGNCPERII TLAGPTNAIFKAFAMIIDKLEEDISSSMTNSTAASRPPVTLRLVVPASQCGSLIGKGGC KIKEIRESTGAQVQVAGDMLPNSTERAITIAGIPQSIIECVKQICVVMLESPPKGVTIPY RPKPSSSPVIFAGGQAYTIQGQYAIPQPDLTKLHQLAMQQSHFPMTHGNTGFSGIES SSPEVKGYWAGLDASAQTTSHELTIPNDLIGCIIGRQGAKINEIRQMSGAQIKIANPVE GSTDRQVTITGSAASISLAQYLINVRLSSETGGMGSSTRTRPLEQKLISEEDLAANDIL DYKDDDDKV
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	PCBP2 poly(rC) binding protein 2 [Homo sapiens (human)]
Official Symbol	PCBP2
Synonyms	PCBP2; poly(rC) binding protein 2; poly(rC)-binding protein 2; heterogenous nuclear ribonucleoprotein E2; hnRNP E2; HNRPE2; alpha-CP2; heterogeneous nuclear ribonucleoprotein E2; hnRNP-E2; MGC110998;

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Gene ID	5094
mRNA Refseq	NM_001098620
Protein Refseq	NP_001092090
MIM	601210
UniProt ID	Q15366
SDS-PAGE	

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