

Product datasheet for PH310035

PCBP2 (NM_005016) Human Mass Spec Standard

Product data:

Product Type:	Mass Spec Standards
Description:	PCBP2 MS Standard C13 and N15-labeled recombinant protein (NP_005007)
Species:	Human
Expression Host:	HEK293
Expression cDNA Clone or AA Sequence:	RC210035
Predicted MW:	38.7 kDa
Protein Sequence:	>RC210035 protein sequence Red=Cloning site Green=Tags(s)

MDTGVIEGGLNVTLTIRLLMHGKEVGSIIIGKKGESVKKMREESGARINISEGNCPERIITLAGPTNAIFK
AFAMIIDKLEEDISSMTNSTAASRPVTLRLVVPASQCGSLIGKGGCKIKEIRESTGAQVQVAGDMLPN
STERAITIAIGIPQSIIECVKQICVVMLETLSQSPKGVTPYRPKSSSPVIFAGGQDRYSTGSDSASFP
HTTSPMCLNPDLEGPPEAYTIQGQYAIQPDLTKLHQLAMQQSHFPMTHGNTGFSGIESSPEVKGYWA
GLDASAQTTSHELTIPNDLIGCIIGRQGAKINEIRQMSGAIKIINPVEGSTDRQVTITGSAASISLAQY
LINVRLSSETGGMGSS

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

Tag:	C-Myc/DDK
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Labeling Method:	Labeled with [U- ¹³ C ₆ , ¹⁵ N ₄]-L-Arginine and [U- ¹³ C ₆ , ¹⁵ N ₂]-L-Lysine
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3
Storage:	Store at -80°C. Avoid repeated freeze-thaw cycles.
Stability:	Stable for 3 months from receipt of products under proper storage and handling conditions.
RefSeq:	<u>NP_005007</u>
RefSeq Size:	3187
RefSeq ORF:	1098
Synonyms:	hnRNP-E2; HNRNPE2; HNRPE2
Locus ID:	5094



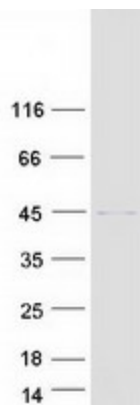
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UniProt ID: [Q15366](#), [A0A384N6B9](#)

Cytogenetics: 12q13.13

Summary: 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. [provided by RefSeq, Jan 2018]

Product images:



Coomassie blue staining of purified PCBP2 protein (Cat# [TP310035]). The protein was produced from HEK293T cells transfected with PCBP2 cDNA clone (Cat# [RC210035]) using MegaTran 2.0 (Cat# [TT210002]).