

Recombinant Human PCBP1, His-tagged

Cat. No. PCBP1-2314H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human PCBP1 protein, fused to His-tag at N-terminus, was expressed in E.coli and purified by using conventional chromatography techniques.
Species	Human
Source	E.coli
ProteinLength	186aa
Description	PCBP1 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 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 promotes 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. PCBP1 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.
Form	Liquid. In 20mM Tris-HCl buffer (pH 8.0) containing 0.15M NaCl, 20% glycerol, 1mM DTT
Molecular Mass	19.6 kDa

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AA Sequence	MGSSHHHHHH SSGLVPRGSH MGSM DAGVTE SGLNVTLTIR LLMHGKEVGS IIGKKGESVK RIREESGARI NISEGNCPER IITLTGPTNA IFKAFAMIID KLEEDINSSM TNSTAASRPP VTLRLVVPAT QCGSLIGKGG CKIKEIREST GAQVQVAGDM LPNSTERAIT IAGVPQSVTE CVKQIC
Purity	>85% by SDS - PAGE
Applications	SDS-PAGE
Storage	Can be stored at +4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C. Avoid repeated freezing and thawing cycles.
Concentration	1 mg/ml
GENE INFORMATION	
Gene Name	PCBP1 poly(rC) binding protein 1 [Homo sapiens]
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
mRNA Refseq	NM_006196
Protein Refseq	NP_006187

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MIM	601209
UniProt ID	Q15365
Chromosome Location	2p13-p12
Pathway	Gene Expression, organism-specific biosystem; Processing of Capped Intron-Containing Pre-mRNA, organism-specific biosystem; Spliceosome, organism-specific biosystem; Spliceosome, conserved biosystem; mRNA Splicing, organism-specific biosystem; mRNA Splicing - Major Pathway, organism-specific biosystem;
Function	DNA binding; RNA binding; protein binding; single-stranded DNA binding;

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