

AR51138PU-S

Human PCBP1 (1-163, His-tag) - Purified

Alternate names:

Alpha-CP1, HNRPE1, HNRPX, Heterogeneous nuclear ribonucleoprotein E1, Nucleic acid-binding protein SUB2.3, Poly(rC)-binding protein 1, SUB2.3, hnRNP E1

Quantity:

0.1 mg

Concentration:

1 mg/ml (determined by Bradford assay)

Background:

PCBP1 appears to be multifunctional. It along with PCBP-2 and hnRNP K 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.

Uniprot ID:

[Q15365](#)

NCBI:

[NP_006187](#)

GenelD:

[5093](#)

Species:

Human

Source:

E. coli

Format:

State: Liquid purified protein

Purity: >85% by SDS - PAGE

Buffer System: 20 mM Tris-HCl buffer (pH 8.0) containing 0.15M NaCl, 20% glycerol, 1mM DTT

Description:

Recombinant human PCBP1 protein, fused to His-tag at N-terminus, was expressed in E.coli and purified by using conventional chromatography techniques.

AA Sequence:

MGSSHHHHHH SSGLVPRGSH MGSM DAGVTE SGLNVTLTIR LLMHGKEVGS IIGKKGESVK
RIREESGARI NISEGNCPER IITLTGPTNA IFKAFAMIID KLEEDINSSM TNSTAASRPP
VTLRLVVPAT QCGSLIGKGG CKIKEIREST GAQVQVAGDM LPNSTERAIT IAGVPQSVTE CVKQIC

Molecular weight: 19.6 kDa (186aa) confirmed by MALDI-TOF

Storage:

Store undiluted at 2-8°C for one week or (in aliquots) at -20°C to -80°C for longer. Avoid repeated freezing and thawing. Shelf life: one year from despatch.

General Readings:

Beausoleil S.A., et al. (2006) Nat. Biotechnol. 24:1285-1292 Yu L.-R., et al. (2007) J. Proteome Res. 6:4150-4162

Pictures:

