Recombinant human PCBP1 protein

Catalog Number: ATGP2314

PRODUCT INFORMATION

Expression system
E.coli

Domain
1-163aa

UniProt No.
Q15365

NCBI Accession No.
NP_006187

Alternative Names
Poly(rC) binding protein 1, Poly(rC) binding protein 1, hnRNP-E1, hnRNP-X, HNRPE1, HNRPX

PRODUCT SPECIFICATION

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

Concentration
1mg/ml (determined by Bradford assay)

Formulation
Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 0.15M NaCl, 20% glycerol, 1mM DTT

Purity
> 85% by SDS-PAGE

Tag
His-Tag

Application
SDS-PAGE

Storage Condition
Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

BACKGROUND

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

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formation of a sequence-specific alpha-globin mRNP complex which is associated with alpha-globin mRNA stability. Recombinant human PCBP1 protein, fused to His-tag at N-terminus, was expressed in E. coli and purified by using conventional chromatography techniques.

Amino acid Sequence

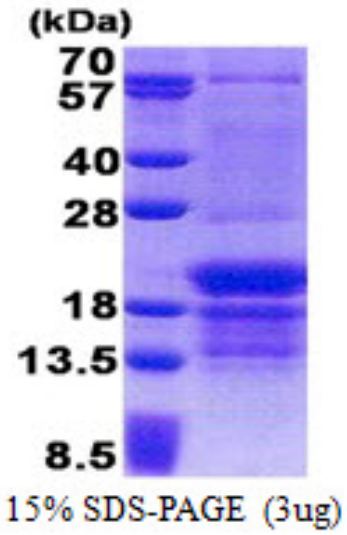
MGSSHHHHHH SSGLVPRGSH MGSMDAGVTE SGLNVTLTIR LLMHGKEVGS IIGKKGESVK RIREESGARI NISEGNCPER IITLTGPTNA IFKAFAMIID KLEEDINSSM TNSTAASRPP VTLRLVVPAT QCGSLIGKGG CKIKEIREST GAQVQVAGDM LPNSTERAIT IAGVPQSVTE CVKQIC

General References

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

DATA

SDS-PAGE



15% SDS-PAGE (3ug)

3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain.