Recombinant Human PCBP1 Protein

Catalog No.: RP03165

Sequence Information

Species
Human

Gene ID
5093

Swiss Prot
Q15365

Tags
N-His

Synonyms
PCBP1， Poly(rC)-binding protein 1, Alpha-CP1, hnRNP E1, Nucleic acid-binding protein SUB2.3

Product Information

Source
E. coli

Purification
≥85% as determined by SDS-PAGE.

Calculated MW
38.3 kDa

Observed MW
40-45 Kda

Endotoxin
Please contact us for more information.

Formulation
Lyophilized from sterile 50 mM Tris, 500 mM NaCl, 5% Glycerol, pH 8.0.
Please contact us for any concerns or special requirements.
Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization.

Reconstitution
Centrifuge the vial before opening. Reconstitute to a concentration of 0.1-0.5 mg/mL in sterile distilled water. Avoid vortex or vigorously pipetting the protein. For long term storage, it is recommended to add a carrier protein or stablizer (e.g. 0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose), and aliquot the reconstituted protein solution to minimize free-thaw cycles.

Background

Poly(rC)-binding protein 1, also known as Heterogeneous nuclear ribonucleoprotein E1, Alpha-CP1, Nucleic acid-binding protein SUB2.3 and PCBP1, is a family member of heterogeneous nuclear ribonucleoproteins (hnRNPs) that belong to RNA-binding proteins and bear three KH domains. PCBP1 is loosely bound in the nucleus. It may shuttle between the nucleus and the cytoplasm. It is abundantly expressed in skeletal muscle, thymus and peripheral blood leukocytes while a lower expression is observed in prostate, spleen, testis, ovary, small intestine, heart, liver, adrenal and thyroid glands. PCBP1 is widely expressed in many human tissues and involved in the regulation of transcription, transportation process, and function of RNA molecules. PCBP1 plays a pivotal role in post-transcriptional regulation for RNA metabolism and RNA function in gene expression. PCBP1 acts as a negative regulator of CD44 variants splicing in HepG2 cells, and loss of PCBP1 in human hepatic tumor contributes to the formation of a metastatic phenotype.

Basic Information

Description
Recombinant Human PCBP1 Protein is produced by *E. coli* expression system. The target protein is expressed with sequence (Asp 2-Cys 356) of human PCBP1 fused with a His tag at the N-terminus.

Activity

Shipping
Lyophilized proteins are shipped at ambient temperature.
Liquid proteins are shipped at frozen temperature with dry ice.
Upon receipt, store it immediately at the temperature recommended below.

Storage
Store at -20℃

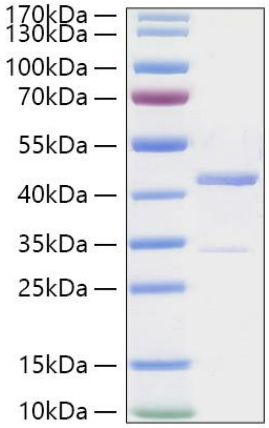
Operational Notes
For your safety and health, please wear a lab coat and disposable gloves for handling.

Contact

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For research use only. Not for therapeutic or diagnostic purposes.
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Validation Data



Recombinant Human PCBP1 Protein was determined by SDS-PAGE under reducing conditions with Coomassie Blue.