

Recombinant Pig PCBP1 Protein, His-tagged

Cat. No. PCBP1-1172P **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Pig PCBP1 Protein (Met1-Ser356) with His tag was expressed in E. coli.
Species	Pig
Source	E.coli
ProteinLength	Met1-Ser356
Description	This intronless gene is thought to have been generated by retrotransposition of a fully processed PCBP-2 mRNA. This gene and PCBP-2 have paralogues (PCBP3 and PCBP4) which are thought to have arisen as a result of duplication events of entire genes. The protein encoded by this gene 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 encoded 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 promote 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.

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Form	Freeze-dried powder
Molecular Mass	Predicted Molecular Mass: 41.2 kDa; Accurate Molecular Mass: 43 kDa
Purity	> 90%
Applications	Positive Control; Immunogen; SDS-PAGE; WB.
Stability	The thermal stability is described by the loss rate. The loss rate was determined by accelerated thermal degradation test, that is, incubate the protein at 37 centigrade for 48h, and no obvious degradation and precipitation were observed. The loss rate is less than 5% within the expiration date under appropriate storage condition.
Storage	Avoid repeated freeze/thaw cycles. Store at 2-8 centigrade for one month. Aliquot and store at -80 centigrade for 12 months.
Storage Buffer	PBS, pH7.4, containing 0.01% SKL, 1mM DTT, 5% Trehalose and Proclin300.
Reconstitution	Reconstitute in PBS or others.

GENE INFORMATION

Gene Name	PCBP1 poly(rC) binding protein 1 [<i>Sus scrofa</i> (pig)]
Official Symbol	PCBP1
Synonyms	PCBP1; poly(rC) binding protein 1; poly(rC)-binding protein 1
Gene ID	100511501
mRNA Refseq	XM_003125057

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Protein Refseq	XP_003125105
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UniProt ID	I3LEC2
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