



Recombinant Mouse Poly (rC)-binding protein 2 (Pcbp2)

Product Code	CSB-EP717234MO-B
Abbreviation	Pcbp2
Storage	The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself. Generally, the shelf life of liquid form is 6 months at -20°C/-80°C. The shelf life of lyophilized form is 12 months at -20°C/-80°C.
Uniprot No.	Q61990
Product Type	Recombinant Protein
Immunogen Species	Mus musculus (Mouse)
Purity	≥85% (SDS-PAGE)
Sequence	MDTGVIEGGL NVTLTIRLLM HGKEVGSIIIG KKGESVKKMR EESGARINIS EGNCPERIIT LAGPTNAIFK AFAMIIDKLE EDISSSMTNS TAASRPPVTL RLVVPASQCG SLIGKGGCKI KEIRESTGAQ VQVAGDMLPN STERAITAG IPQSIIECVK QICVVMLESP PKGVTIPYRP KPSSSPVIFA GGQDRYSTGS DSASFPHTTP SMCLNPDLEG PPLEAYTIQG QYAIQPDLT KLHQLAMQQS HFPMTHGNTG FSGIESSSPE VKGYWAGLDA SAQTTSELT IPNDLIGCII GRQGAKINEI RQMSGAQIKI ANPVEGSTDR QVTITGSAAS ISLAQYLINV RLSSETGGMG SS
Source	E.coli
Target Names	Pcbp2
Protein Names	Recommended name: Poly(rC)-binding protein 2 Alternative name(s): Alpha-CP2 CTBP Short name= CBP Putative heterogeneous nuclear ribonucleoprotein X Short name= hnRNP X
Expression Region	1-362
Notes	Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.
Tag Info	Tag type will be determined during the manufacturing process.
Protein Length	full length protein
Target Details	This protein appears to be multifunctional. Along with PCBP-1 and hnRNPk, it is one of the major cellular poly(rC)-binding proteins. The encoded protein contains three K-homologous (KH) domains which may be involved in RNA binding. Together with PCBP-1, this protein also functions as a translational coactivator of poliovirus RNA via a sequence-specific interaction with stem-loop IV of the IRES, promoting 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. This multiexon structural mRNA is thought to be retrotransposed to generate PCBP-1, an intronless gene with functions similar to that of PCBP2. This gene and PCBP-1 have paralogous genes (PCBP3 and PCBP4) which are thought to have arisen as a result of duplication events of entire genes. This gene also has two processed pseudogenes (PCBP2P1 and PCBP2P2). Multiple transcript variants encoding different isoforms have been found for this gene.

Reconstitution

We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Please reconstitute protein in deionized sterile water to a concentration of 0.1-1.0 mg/mL. We recommend to add 5-50% of glycerol (final concentration) and aliquot for long-term storage at -20°C/-80°C. Our default final concentration of glycerol is 50%. Customers could use it as reference.

Shelf Life

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