

PCBP1 Antibody (Center) Blocking Peptide
Synthetic peptide
Catalog # BP18827c**Specification**

PCBP1 Antibody (Center) Blocking Peptide - Product InformationPrimary Accession [Q15365](#)**PCBP1 Antibody (Center) Blocking Peptide - Additional Information****Gene ID** 5093**Other Names**

Poly(rC)-binding protein 1, Alpha-CP1, Heterogeneous nuclear ribonucleoprotein E1, hnRNP E1, Nucleic acid-binding protein SUB23, PCBP1

Format

Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

Storage

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

Precautions

This product is for research use only. Not for use in diagnostic or therapeutic procedures.

PCBP1 Antibody (Center) Blocking Peptide - Protein Information**Name** PCBP1 {ECO:0000303|PubMed:7607214, ECO:0000312|HGNC:HGNC:8647}**Function**

Single-stranded nucleic acid binding protein that binds preferentially to oligo dC (PubMed:7607214, PubMed:7556077, PubMed:8152927, PubMed:15731341). Together with PCBP2, required for erythropoiesis, possibly by regulating mRNA splicing (By similarity).

Cellular Location

Nucleus. Cytoplasm. Note=Loosely bound in the nucleus (PubMed:7607214). May shuttle between the nucleus and the cytoplasm (PubMed:7607214).

Tissue Location

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 Antibody (Center) Blocking Peptide - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Blocking Peptides](#)

PCBP1 Antibody (Center) Blocking Peptide - Images

PCBP1 Antibody (Center) Blocking Peptide - Background

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 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 encoded protein together with PCBP-2 also functions as translational coactivator 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.

PCBP1 Antibody (Center) Blocking Peptide - References

Cloke, B., et al. Endocrinology 151(8):3954-3964(2010) Wang, H., et al. Cancer Cell 18(1):52-62(2010) Zhang, T., et al. Mol. Cancer 9, 72 (2010) Waggoner, S.A., et al. J. Biol. Chem. 284(14):9039-9049(2009) Huo, L.R., et al. Biochim. Biophys. Acta 1784(11):1524-1533(2008)