

PCBP1 Antibody (Center)
Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP18827c

Specification

PCBP1 Antibody (Center) - Product Information

Application	WB,E
Primary Accession	O15365
Other Accession	O19048 , P60335 , Q5E9A3 , NP_006187.2
Reactivity	Human, Mouse
Predicted	Bovine, Rabbit
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Calculated MW	37498
Antigen Region	188-217

PCBP1 Antibody (Center) - 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

Target/Specificity

This PCBP1 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 188-217 amino acids from the Central region of human PCBP1.

Dilution

WB~~1:1000

Format

Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.

Storage

Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions

PCBP1 Antibody (Center) is for research use only and not for use in diagnostic or therapeutic procedures.

PCBP1 Antibody (Center) - 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:[15731341](#), PubMed:[7556077](#), PubMed:[7607214](#), PubMed:[8152927](#)). 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

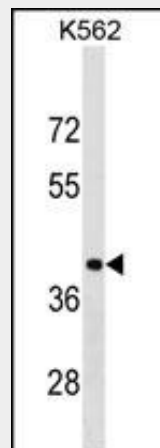
Abundantly expressed in skeletal muscle, thymus and peripheral blood leukocytes while a lower expression is observed in prostate, spleen, testis, ovary, small intestine, heart, liver, adrenal and thyroid glands.

PCBP1 Antibody (Center) - Protocols

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

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

PCBP1 Antibody (Center) - Images



PCBP1 Antibody (Center)(Cat. #AP18827c) western blot analysis in K562 cell line lysates (35ug/lane). This demonstrates the PCBP1 antibody detected the PCBP1 protein (arrow).

PCBP1 Antibody (Center) - 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 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.

PCBP1 Antibody (Center) - 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)
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