

**PCBP1 Antibody (Center)**  
**Affinity Purified Rabbit Polyclonal Antibody (Pab)**  
**Catalog # AW5581**

**Specification**

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**PCBP1 Antibody (Center) - Product Information**

Application	WB,E
Primary Accession	<a href="#">O15365</a>
Other Accession	<a href="#">O5E9A3</a> , <a href="#">P60335</a> , <a href="#">O19048</a>
Reactivity	Human
Predicted	Bovine
Host	Rabbit
Clonality	Polyclonal
Calculated MW	H=37,M=37 KDa
Isotype	Rabbit IgG
Antigen Source	HUMAN

**PCBP1 Antibody (Center) - Additional Information**

**Gene ID** 5093

**Antigen Region**  
188-217

**Other Names**

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

**Dilution**

WB~~1:2000

**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.

**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:<a href="http://www.uniprot.org/citations/15731341" target="\_blank">15731341</a>, PubMed:<a href="http://www.uniprot.org/citations/7556077" target="\_blank">7556077</a>, PubMed:<a href="http://www.uniprot.org/citations/7607214" target="\_blank">7607214</a>, PubMed:<a href="http://www.uniprot.org/citations/8152927" target="\_blank">8152927</a>). 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

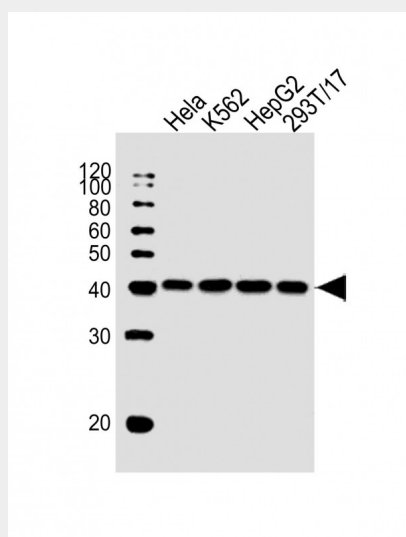
Abundantly expressed in skeletal muscle, thymus and peripheral blood leukocytes while a lower expression is observed in prostate, spleen, testis, ovary, small intestine, heart, liver, adrenal and thyroid glands.

### PCBP1 Antibody (Center) - Protocols

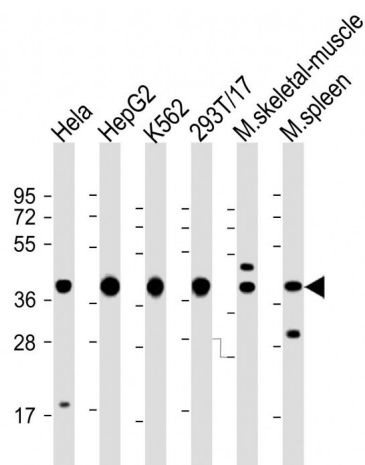
Provided below are standard protocols that you may find useful for product applications.

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

### PCBP1 Antibody (Center) - Images



All lanes : Anti-PCBP1 Antibody (Center) at 1:1000 dilution Lane 1: HeLa whole cell lysate Lane 2: K562 whole cell lysate Lane 3: HepG2 whole cell lysate Lane 4: 293T/17 whole cell lysate Lysates/proteins at 20 µg per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution. Predicted band size : 37 kDa Blocking/Dilution buffer: 5% NFD/MTBST.



All lanes : Anti-PCBP1 Antibody (Center) at 1:2000 dilution Lane 1: HeLa whole cell lysate Lane 2: HepG2 whole cell lysate Lane 3: K562 whole cell lysate Lane 4: 293T/17 whole cell lysate Lane 5: mouse skeletal muscle lysate Lane 6: mouse spleen lysate Lysates/proteins at 20  $\mu$ g per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution. Predicted band size : 37 kDa Blocking/Dilution buffer: 5% NFDM/TBST.

### 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)  
 Huo, L.R., et al. *Biochim. Biophys. Acta* 1784(11):1524-1533(2008)