



Rabbit Anti-PCBP1 antibody

SL19907R

Product Name:	PCBP1
Chinese Name:	异构核糖核蛋白E1抗体
Alias:	Alpha-CP1; Heterogeneous nuclear ribonucleoprotein E1; heterogenous nuclear ribonucleoprotein E1; heterogenous nuclear ribonucleoprotein X; hnRNP E1; hnRNP-E1; hnRNP-X; HNRPE1; HNRPX; nucleic acid binding protein sub 2.3; Nucleic acid-binding protein SUB2.3; Nucleic acid-binding protein SUB2.3; PCBP1; PCBP1_HUMAN; poly(rC) binding protein 1; poly(rC)-binding protein 1; rCbinding protein 1.
Organism Species:	Rabbit
Clonality:	Polyclonal
React Species:	Human,Mouse,Pig,Cow,Horse,
Applications:	ELISA=1:500-1000IHC-P=1:400-800IHC-F=1:400-800ICC=1:100-500IF=1:100-500 (Paraffin sections need antigen repair) not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Molecular weight:	37kDa
Cellular localization:	The nucleuscytoplasmic
Form:	Lyophilized or Liquid
Concentration:	1mg/ml
immunogen:	KLH conjugated synthetic peptide derived from human PCBP1:201-300/356
Lsotype:	IgG
Purification:	affinity purified by Protein A
Storage Buffer:	0.01M TBS(pH7.4) with 1% BSA, 0.03% Proclin300 and 50% Glycerol.
Storage:	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. The lyophilized antibody is stable at room temperature for at least one month and for greater than a year when kept at -20°C. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.
PubMed:	PubMed
Product Detail:	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. [provided by RefSeq, Jul 2008]

Function:

Single-stranded nucleic acid binding protein that binds preferentially to oligo dC.

Subcellular Location:

Nucleus. Cytoplasm. Loosely bound in the nucleus. May shuttle between the nucleus and the cytoplasm.

Tissue Specificity:

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.

Post-translational modifications:

Phosphorylated; lowers poly(rC)-binding activity.

Similarity:

Contains 3 KH domains.

SWISS:

Q15365

Gene ID:

5093

Database links:

[Entrez Gene: 5093](#) Human

[Entrez Gene: 23983](#) Mouse

[Entrez Gene: 500242](#) Rat

[Omim: 601209](#) Human

[SwissProt: Q5E9A3](#) Cow

[SwissProt: Q15365](#) Human

[SwissProt: P60335](#) Mouse

[SwissProt: O19048](#) Rabbit

[Unigene: 2853](#) Human

[Unigene: 274146](#) Mouse

Important Note:

This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.

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