PCBP1 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	PCBP1, Polyclonal Antibody
Full Product Name	PCBP1, ID (PCBP1, Poly(rC)-binding protein 1, Alpha-CP1, Heterogeneous nuclear ribonucleoprotein E1, Nucleic acid-binding protein SUB2.3) (MaxLight 550)
Product Gene Name	anti-PCBP1 antibody
Product Synonym Names	PCBP1; Poly(rC)-binding protein 1; Alpha-CP1; Heterogeneous nuclear ribonucleoprotein E1; Nucleic acid-binding protein SUB2.3
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human
Form/Format	Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with MaxLight550.
Purity/Purification	Purified by Protein A Affinity Chromatography.
Preparation and Storage	Store product at 4 degree C in the dark. DO NOT FREEZE! Stable at 4 degree C for 12 months after receipt as an undiluted liquid. Dilute required amount only prior to immediate use. Further dilutions can be made in assay buffer. Caution: MaxLight550 conjugates are sensitive to light. For maximum recovery of product, centrifuge the original vial prior to removing the cap.
Molecular Weight	37,498 Da
OMIM	601209
3D Structure	ModBase 3D Structure for Q15365
Immunogen	PCBP1 antibody is generated from rabbits immunized with a KLH conjugated synthetic between 187-217 amino acids selected from the Central region of human PCBP1.
Conjugate	MaxLight550
Note	Preservative Free
Product Categories/Family for anti-PCBP1 antibody	Antibodies; Nuclear Proteins
Applications Tested/Suitable for anti-PCBP1 antibody	Western Blot (WB), FLISA
Application Notes for anti-PCBP1 antibody	WB: 1:100-500 FLISA: 1:1,000 Applications are based on unconjugated antibody.

Related Product Information for anti-PCBP1 antibody	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.
Product References and Citations for anti-PCBP1 antibody	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).
Other Notes	Small volumes of anti-PCBP1 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for PCBP1 purchase	MBS6331337 is an antibody targeting PCBP1. Also known as PCBP1, ID (PCBP1, Poly(rC)-binding protein 1, Alpha-CP1, Heterogeneous nuclear ribonucleoprotein E1, Nucleic acid-binding protein SUB2.3) (MaxLight 550). Reactive in Human. Host: Rabbit.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for PCBP1. It may not necessarily be applicable to this product.

NCBI GI #	222352151
NCBI GeneID	5093
NCBI Accession #	NP_006187.2
UniProt Primary Accession #	Q15365
UniProt Secondary Accession #	Q13157; Q14975
UniProt Related Accession #	Q15365
GenBank Nucleotide #	NM_006196.3
NCBI Official Full Name	poly(rC)-binding protein 1
NCBI Official Synonym Full Names	poly(rC) binding protein 1
NCBI Official Symbol	PCBP1
NCBI Official Synonym Symbols	HNRPX; HNRPE1; hnRNP-X; HEL-S-85; hnRNP-E1
UniProt Protein Name	Poly(rC)-binding protein 1
UniProt Synonym Protein Names	Alpha-CP1; Heterogeneous nuclear ribonucleoprotein E1; hnRNP E1; Nucleic acid-binding protein SUB2.3
Protein Family	Poly(rC)-binding protein
UniProt Gene Name	PCBP1
UniProt Synonym Gene Names	hnRNP E1
UniProt Entry Name	PCBP1_HUMAN
NCBI Protein Information	poly(rC)-binding protein 1; poly(rC)-binding protein 1; alpha-CP1; epididymis secretory protein Li 85; heterogeneous nuclear ribonucleoprotein E1; heterogenous nuclear ribonucleoprotein E1; heterogenous nuclear ribonucleoprotein X; nucleic acid-binding pr

UniProt Comments for PCBP1	hnRNP E1: Single-stranded nucleic acid binding protein that binds preferentially to oligo dC. 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. Protein type: RNA splicing; Translation; RNA-binding Chromosomal Location of Human Ortholog: 2p13-p12 Cellular Component: nucleoplasm; intracellular membrane-bound organelle; membrane; cytoplasm; ribonucleoprotein complex Molecular Function: protein binding; RNA binding; single-stranded DNA binding Biological Process: nuclear mRNA splicing, via spliceosome; RNA splicing; gene expression
Research Articles on PCBP1	**1.** A novel mechanism by which POLH expression is controlled by PCBP1 via mRNA stability.
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