

## Product datasheet for **TA345904**

### PCBP2 Rabbit Polyclonal Antibody

#### Product data:

Product Type:	Primary Antibodies
Applications:	WB
Recommended Dilution:	WB
Reactivity:	Human
Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Immunogen:	The immunogen for anti-PCBP2 antibody: synthetic peptide directed towards the N terminal of human PCBP2. Synthetic peptide located within the following region: KKGESVKKMREESGARINISEGNCPERIITLAGPTNAIFKAFAMIIDKLE
Formulation:	Liquid. Purified antibody supplied in 1x PBS buffer with 0.09% (w/v) sodium azide and 2% sucrose. <i>Note that this product is shipped as lyophilized powder to China customers.</i>
Purification:	Affinity Purified
Conjugation:	Unconjugated
Storage:	Store at -20°C as received.
Stability:	Stable for 12 months from date of receipt.
Predicted Protein Size:	39 kDa
Gene Name:	poly(rC) binding protein 2
Database Link:	<a href="#">NP_005007</a> <a href="#">Entrez Gene 5094 Human</a> <a href="#">Q15366</a>



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**Background:**

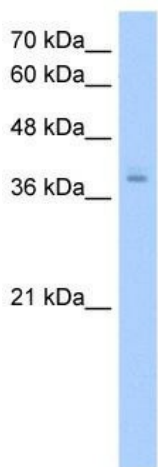
PCBP2 appears to be multifunctional. It along with PCBP-1 and hnRNPk corresponds to the major cellular poly(rC)-binding proteins. This protein together with PCBP-1 also functions as translational coactivators of poliovirus RNA via a sequence-specific interaction with stem-loop IV of the IRES and promote 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 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. This gene and PCBP-1 has paralogues PCBP3 and PCBP4 which is thought to arose as a result of duplication events of entire genes. The protein encoded by this gene appears to be multifunctional. Along with PCBP-1 and hnRNPk, it is one of the major cellular poly(rC)-binding proteins. The encoded protein contains three K-homologous (KH) domains which may be involved in RNA binding. Together with PCBP-1, this protein also functions as a translational coactivator of poliovirus RNA via a sequence-specific interaction with stem-loop IV of the IRES, promoting 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. This multiexon structural mRNA is thought to be retrotransposed to generate PCBP-1, an intronless gene with functions similar to that of PCBP2. This gene and PCBP-1 have paralogous genes (PCBP3 and PCBP4) which are thought to have arisen as a result of duplication events of entire genes. This gene also has two processed pseudogenes (PCBP2P1 and PCBP2P2). Multiple transcript variants encoding different isoforms have been found for this gene.

**Synonyms:**

hnRNP-E2; HNRNPE2; HNRPE2

**Note:**

Immunogen Sequence Homology: Dog: 100%; Pig: 100%; Rat: 100%; Horse: 100%; Human: 100%; Mouse: 100%; Bovine: 100%; Rabbit: 100%; Zebrafish: 100%; Guinea pig: 100%

**Product images:**

WB Suggested Anti-PCBP2 Antibody Titration: 2.5 ug/ml; Positive Control: HepG2 cell lysate; PCBP2 is supported by BioGPS gene expression data to be expressed in HepG2