

Rabbit PCBP2 Polyclonal Antibody | anti-PCBP2 antibody

PCBP2 Antibody

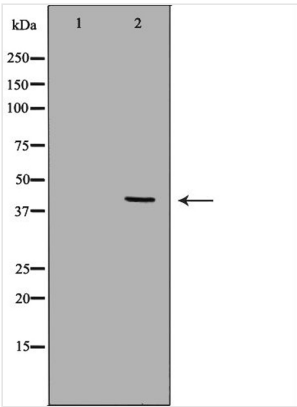
CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA326740	Rabbit	Human, Mouse, Rat	ELISA, Immunohistochemistry, Western Blot

PRODUCT SYNONYMS

PCBP2; Polyclonal Antibody; PCBP2 Antibody; Alpha CP2; Alpha-CP2; alphaCP-2; Cbp; CTBP; Heterogeneous nuclear ribonucleoprotein E2; Heterogenous nuclear ribonucleoprotein E2; hnRNP E2; hnRNP-E2; HNRNPE2; Hnrnp; HNRPE2; Hnrpx; MGC110998; PCBP2_HUMAN; poly(rC) binding protein 2; Poly(rC)-binding protein 2; Putative heterogeneous nuclear ribonucleoprotein X; rCbinding protein 2; anti-PCBP2 antibody

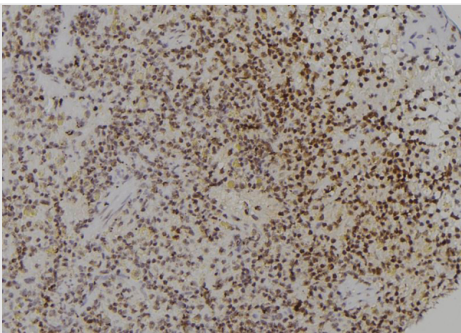
PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Isotype	IgG
Specificity	PCBP2 antibody detects endogenous levels of total PCBP2
Purity/Purification	The antiserum was purified by peptide affinity chromatography using SulfoLink Coupling Resin.
Form/Format	Liquid Phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Concentration	1mg/ml (varies by lot)
Sequence Length	331
Applicable Applications for anti-PCBP2 antibody	ELISA, IHC (Immunohistochemistry), WB (Western Blot)
Immunogen	A synthesized peptide derived from human PCBP2
Subcellular Location	Nucleus. Cytoplasm. Loosely bound in the nucleus. May shuttle between the nucleus and the cytoplasm.
Tissue Specificity	Detected in all tissues examined.
Predicted Cross Reactivity	Pig, Bovine, Horse
Similarity	Pig (100%), Bovine (100%), Horse (100%)
Conjugation	Unconjugated
Preparation and Storage	Store at -20 degree C. Stable for 12 months from date of receipt.



WB (Western Blot)

Western blot analysis of extracts of HeLa, using PCBP2 antibody. The lane on the left is treated with the antigen-specific peptide.



IHC (Immunohistochemistry)

AAA326740 at 1/100 staining Rat spleen tissue by IHC-P. The sample was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The sample was then blocked and incubated with the antibody for 1.5 hours at 22 degree C. An HRP conjugated goat anti-rabbit antibody was used as the secondary.

ADDITIONAL INFORMATION

Related Product Information for anti-PCBP2 antibody

Description: 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. [provided by RefSeq, Jul 2008]

Function: Single-stranded nucleic acid binding protein that binds preferentially to oligo dC. Major cellular poly(rC)-binding protein. Binds also poly(rU). Negatively regulates cellular antiviral responses mediated by MAVS signaling (PubMed:19881509). It acts as an adapter between MAVS and the E3 ubiquitin ligase ITCH, therefore triggering MAVS ubiquitination and degradation (PubMed:19881509).

Subunit Structure: Identified in a mRNP complex, at least composed of DHX9, DDX3X, ELAVL1, HNRNPU, IGF2BP1, ILF3, PABPC1, PCBP2, PTBP2, STAU1, STAU2, SYNCRIP and YBX1. Interacts with IFIH1 and RNF135. Interacts with MAVS (via C-terminus) and ITCH (via WW domains).

Post-translational Modifications: Phosphorylated. The non-phosphorylated form(s) exhibited the strongest poly(rC)-binding activity. (Microbial infection) Proteolytically cleaved by picornavirus proteinase 3CD.

Similarity: The KH domains mediate poly(C) binding.

NCBI AND UNIPROT INFORMATION

NCBI GI #	148833484
NCBI GeneID	5094
NCBI Accession #	NP_001092090.1
NCBI GenBank Nucleotide #	NM_001098620.2
UniProt Accession #	Q15366; Q32Q82; Q59HD4; Q68Y55; Q6IPF4; Q6PKG5; A8K7X6; B4DXP5; F8VYL7; G3V0E8; I6L8F9
Molecular Weight	Observed: 39 kDa Predicted: 39 kDa
NCBI Official Full Name	poly(rC)-binding protein 2 isoform c
NCBI Official Synonym Full Names	poly(rC) binding protein 2

NCBI Official Symbol	PCBP2
NCBI Official Synonym Symbols	HNRPE2; HNRNPE2; hnRNP-E2
NCBI Protein Information	poly(rC)-binding protein 2
UniProt Protein Name	Poly(rC)-binding protein 2
UniProt Gene Name	PCBP2
UniProt Synonym Gene Names	hnRNP E2

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/polyclonal/pcbp2-antibody-immunohistochemistry-western-blot-elisa/326740>