



Rabbit Anti-PCBP2 antibody

SL19908R

Product Name:	PCBP2
Chinese Name:	异构核糖核蛋白E2抗体
Alias:	Alpha CP2; Alpha-CP2; alphaCP-2; Cbp; CTBP; Heterogeneous nuclear ribonucleoprotein E2; Heterogenous nuclear ribonucleoprotein E2; hnRNP E2; hnRNP-E2; HNRNPE2; HnrnpX; HNRPE2; Hnrpx; MGC110998; PCBP2; PCBP2_HUMAN; poly(rC) binding protein 2; Poly(rC)-binding protein 2; Putative heterogeneous nuclear ribonucleoprotein X; rCbinding protein 2.
Organism Species:	Rabbit
Clonality:	Polyclonal
React Species:	Human,Mouse,Rat,Pig,Cow,Rabbit,Zebrafish,Sheep,
Applications:	WB=1:500-2000ELISA=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:	39kDa
Cellular localization:	The nucleuscytoplasmic
Form:	Lyophilized or Liquid
Concentration:	1mg/ml
immunogen:	KLH conjugated synthetic peptide derived from human PCBP2:1-100/365
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:	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. It acts as an adapter between MAVS and the E3 ubiquitin ligase ITCH, therefore triggering MAVS ubiquitination and degradation.

Subunit:

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).

Subcellular Location:

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

Tissue Specificity:

Detected in all tissues examined.

Post-translational modifications:

Phosphorylated. The non-phosphorylated form(s) exhibited the strongest poly(rC)-binding activity.

Similarity:

Contains 3 KH domains.

SWISS:

Q15366

Gene ID:

5094

Database links:

[Entrez Gene: 540653](#) Cow

[Entrez Gene: 5094](#) Human

[Entrez Gene: 18521](#) Mouse

[Entrez Gene: 363005](#) Rat

[Omim: 601210](#) Human

[SwissProt: Q15366](#) Human

[SwissProt: Q61990](#) Mouse

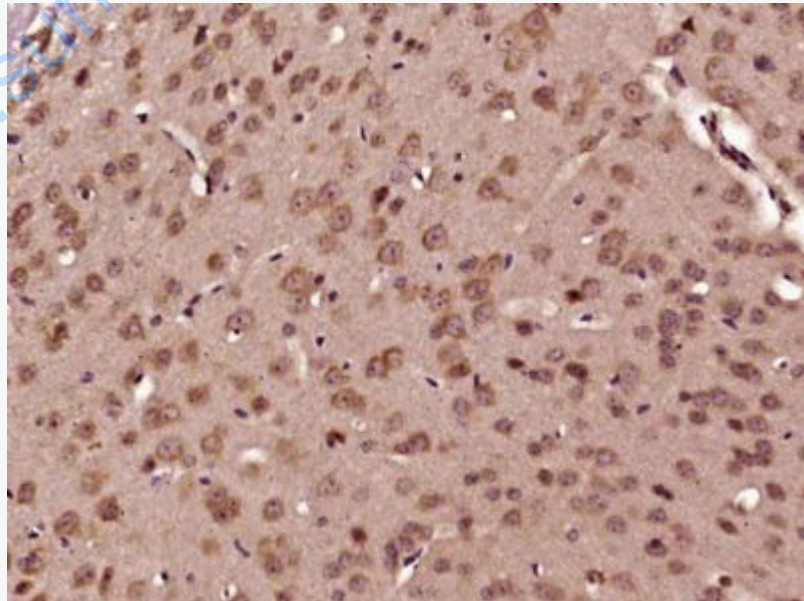
[Unigene: 546271](#) Human

[Unigene: 236513](#) Mouse

Important Note:

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

Picture:



Paraformaldehyde-fixed, paraffin embedded (Mouse brain); Antigen retrieval by

boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (PCBP2) Polyclonal Antibody, Unconjugated (SL19908R) at 1:400 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructions and DAB staining.

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