

Rabbit PCBP2/hnRNP E2 Polyclonal Antibody | anti-PCBP2 antibody

Anti-PCBP2/hnRNP E2 Antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA19259	Rabbit	Human, Mouse, Rat	Western Blot, Immunohistochemistry, Flow Cytometry, Functional Assay, ELISA

PRODUCT SYNONYMS

PCBP2/hnRNP E2; Polyclonal Antibody; Anti-PCBP2/hnRNP E2 Antibody; Pcbp2; Cbp; Hnrnp; Hnrpx; Poly(rC-binding protein 2; Alpha-CP2; CTBP; CBP; Putative heterogeneous nuclear ribonucleoprotein X; hnRNP X; poly(rC) binding protein 2; anti-PCBP2 antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Isotype	Rabbit IgG
Specificity	Rabbit IgG polyclonal antibody for PCBP2/hnRNP E2 detection.
Purity/Purification	Immunogen affinity purified.
Form/Format	Lyophilized. Each vial contains 4mg Trehalose, 0.9mg NaCl, 0.2mg Na ₂ HPO ₄ , 0.005mg Na ₃ .
Applicable Applications for anti-PCBP2 antibody	WB (Western Blot), IHC (Immunohistochemistry), FCM/FACS (Flow Cytometry), ELISA (Direct ELISA)
Application Notes	WB: 0.25-0.5ug/ml Human, Mouse, Rat IHC-P: 2-5ug/ml Human, Mouse, Rat FC/FACS/FCM: 1-3ug/1x10 ⁶ cells Human Direct ELISA: 0.1-0.5ug/ml Human
Immunogen	E Coli-derived human PCBP2/hnRNP E2 recombinant protein (Position: Q197-K276).
Reconstitution	Add 0.2ml of distilled water will yield a concentration of 500ug/ml.
Recommended Detection Systems	Recommended Detection Systems
Preparation and Storage	Store at -20 degree C for one year. After reconstitution, at 4 degree C for one month. It can also be aliquotted and stored frozen at -20 degree C for a longer time. Avoid repeated freezing and thawing.

IMAGES



FCM (Flow Cytometry)

Figure 7. Flow Cytometry analysis of THP-1 cells using anti-PCBP2/hnRNP E2 antibody (AAA19259). Overlay histogram showing THP-1 cells stained with AAA19259 (Blue line). The cells were blocked with 10% normal goat serum. And then incubated with rabbit anti-PCBP2/hnRNP E2 Antibody (AAA19259, 1µg/1x10⁶ cells) for 30 min at 20 degree C. DyLight®488 conjugated goat anti-rabbit IgG (5-10µg/1x10⁶ cells) was used as secondary antibody for 30 minutes at 20 degree C. Isotype control antibody (Green line) was rabbit IgG (1µg/1x10⁶) used under the same conditions. Unlabelled sample (Red line) was also used as a control.



IHC (Immunohistochemistry)

Figure 6. IHC analysis of PCBP2/hnRNP E2 using anti-PCBP2/hnRNP E2 antibody (AAA19259). PCBP2/hnRNP E2 was detected in paraffin-embedded section of human rectal cancer tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH8. 0, epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 2µg/ml rabbit anti-PCBP2/hnRNP E2 Antibody (AAA19259) overnight at 4 degree C. Biotinylated goat anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37 degree C. The tissue section was developed using Streptavidin-Biotin-Complex (SABC) (Catalog # with DAB as the chromogen.



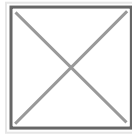
IHC (Immunohistochemistry)

Figure 5. IHC analysis of PCBP2/hnRNP E2 using anti-PCBP2/hnRNP E2 antibody (AAA19259).PCBP2/hnRNP E2 was detected in paraffin-embedded section of human pancreatic cancer tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH8. 0, epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 2μg/ml rabbit anti-PCBP2/hnRNP E2 Antibody (AAA19259) overnight at 4 degree C. Biotinylated goat anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37 degree C. The tissue section was developed using Streptavidin-Biotin-Complex (SABC) (Catalog # with DAB as the chromogen.



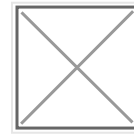
IHC (Immunohistochemistry)

Figure 4. IHC analysis of PCBP2/hnRNP E2 using anti-PCBP2/hnRNP E2 antibody (AAA19259).PCBP2/hnRNP E2 was detected in paraffin-embedded section of human ovarian cancer tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH8. 0, epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 2μg/ml rabbit anti-PCBP2/hnRNP E2 Antibody (AAA19259) overnight at 4 degree C. Biotinylated goat anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37 degree C. The tissue section was developed using Streptavidin-Biotin-Complex (SABC) (Catalog # with DAB as the chromogen.



IHC (Immunohistochemistry)

Figure 3. IHC analysis of PCBP2/hnRNP E2 using anti-PCBP2/hnRNP E2 antibody (AAA19259).PCBP2/hnRNP E2 was detected in paraffin-embedded section of rat brain tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH8. 0, epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 2μg/ml rabbit anti-PCBP2/hnRNP E2 Antibody (AAA19259) overnight at 4 degree C. Biotinylated goat anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37 degree C. The tissue section was developed using Streptavidin-Biotin-Complex (SABC) (Catalog # with DAB as the chromogen.



IHC (Immunohistochemistry)

Figure 2. IHC analysis of PCBP2/hnRNP E2 using anti-PCBP2/hnRNP E2 antibody (AAA19259).PCBP2/hnRNP E2 was detected in paraffin-embedded section of mouse brain tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH8. 0, epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 2μg/ml rabbit anti-PCBP2/hnRNP E2 Antibody (AAA19259) overnight at 4 degree C. Biotinylated goat anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37 degree C. The tissue section was developed using Streptavidin-Biotin-Complex (SABC) (Catalog # with DAB as the chromogen.

ADDITIONAL INFORMATION

Related Product Information for anti-PCBP2 antibody

Poly(rC)-binding protein 2 is a protein that in humans is encoded by the PCBP2 gene. 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.

References

1. Bejerano, G., Lowe, C. B., Ahituv, N., King, B., Siepel, A., Salama, S. R., Rubin, E. M., Kent, W. J., Haussler, D. A distal enhancer and an ultraconserved exon are derived from a novel retroposon. *Nature* 441: 87-90, 2006.
2. Chkheidze, A. N., Liebhaber, S. A. A novel set of nuclear localization signals determine distributions of the alpha-CP RNA-binding proteins. *Molec. Cell. Biol.* 23: 8405-8415, 2003.
3. Eiring, A. M., Harb, J. G., Neviani, P., Garton, C., Oaks, J. J., Spizzo, R., Liu, S., Schwind, S., Santhanam, R., Hickey, C. J., Becker, H., Chandler, J. C., and 13 others. miR-328 functions as an RNA decoy to modulate hnRNP E2 regulation of mRNA translation in leukemic blasts. *Cell* 140: 652-665, 2010.

NCBI AND UNIPROT INFORMATION

NCBI GI #	6707736
NCBI GeneID	5094
UniProt Accession #	Q15366; Q32Q82; Q59HD4; Q68Y55; Q6IPF4; Q6PKG5; A8K7X6; F8VYL7; G3V0E8; I6L8F9
Molecular Weight	365
NCBI Official Full Name	Poly(rC)-binding protein 2
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; poly(rC)-binding protein 2; hnRNP E2; alpha-CP2; heterogenous nuclear ribonucleoprotein E2; heterogeneous nuclear ribonucleoprotein E2
UniProt Protein Name	Poly(rC)-binding protein 2
UniProt Gene Name	PCBP2
UniProt Synonym Gene Names	hnRNP E2
UniProt Entry Name	PCBP2_HUMAN

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-hnnp-e2-antibody-western-blot-immunohistochemistry-flow-cytometry-direct-elisa-elisa/19259>