

Rabbit hnRNP E2/PCBP2 Polyclonal Antibody | anti-hnRNPE2/PCBP2 antibody

Anti-hnRNP E2/PCBP2 Antibody Picoband

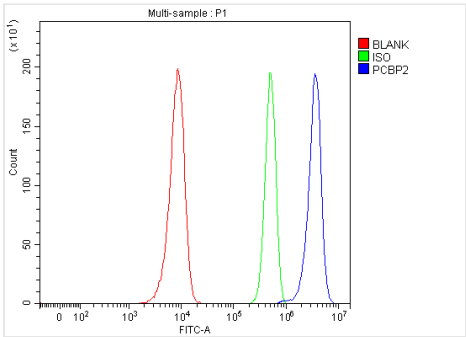
CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA127115	Rabbit	Human, Mouse, Rat	Western Blot, Immunofluorescence, Immunocytochemistry, Flow Cytometry, Functional Assay, ELISA

PRODUCT SYNONYMS

hnRNP E2/PCBP2; Polyclonal Antibody; Anti-hnRNP E2/PCBP2 Antibody Picoband; BAG family molecular chaperone regulator 1; peptidylprolyl isomerase D; Peptidyl-prolyl cis-trans isomerase D; PPIase D; anti-hnRNPE2/PCBP2 antibody

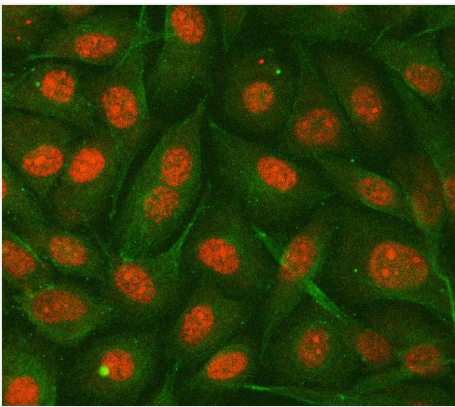
PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Isotype	Rabbit IgG
Specificity	Widely expressed.
Purity/Purification	Immunogen affinity purified.
Form/Format	Lyophilized. Each vial contains 4 mg Trehalose, 0.9 mg NaCl, 0.2 mg Na ₂ HPO ₄ .
Applicable Applications for anti-hnRNPE2/PCBP2 antibody	WB (Western Blot), IF (Immunofluorescence), ICC (Immunocytochemistry), FCM/FACS (Flow Cytometry), ELISA
Immunogen	E coli-derived human hnRNP E2/PCBP2 recombinant protein (Position: D136-K276).
Subcellular Localization	Cytoplasm
Reconstitution	Adding 0.2 ml of distilled water will yield a concentration of 500ug/ml.
Cross Reactivity	No cross-reactivity with other proteins.
Protein Function	PPIases accelerate the folding of proteins. It catalyzes the cis-trans isomerization of proline imidic peptide bonds in oligopeptides. Proposed to act as a co-chaperone in HSP90 complexes such as in unligated steroid receptors heterocomplexes. Different co-chaperones seem to compete for association with HSP90 thus establishing distinct HSP90-co-chaperone-receptor complexes with the potential to exert tissue-specific receptor activity control. May have a preference for estrogen receptor complexes and is not found in glucocorticoid receptor complexes. May be involved in cytoplasmic dynein-dependent movement of the receptor from the cytoplasm to the nucleus. May regulate MYB by inhibiting its DNA- binding activity. Involved in regulation of AHR signaling by promoting the formation of the AHR:ARNT dimer; the function is independent of HSP90 but requires the chaperone activity. Involved in regulation of UV radiation-induced apoptosis. Promotes cell viability in anaplastic lymphoma kinase-positive anaplastic large- cell lymphoma (ALK+ ALCL) cell lines. May be involved in hepatitis C virus (HCV) replication and release.
Preparation and Storage	At -20 degree C for one year from date of receipt. After reconstitution, at 4 degree C for one month. It can also be aliquotted and stored frozen at -20 degree C for six months.Avoid repeated freezing and thawing.



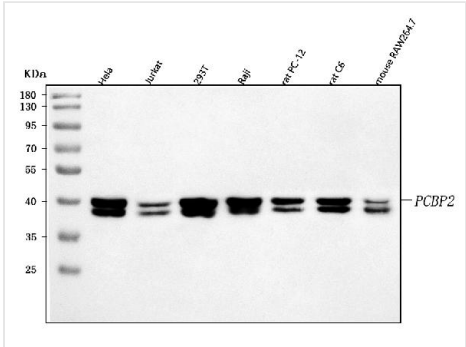
FCM/FACS (Flow Cytometry)

Figure 3. Flow Cytometry analysis of Hela cells using anti-hnRNP E2/PCBP2 antibody (AAA127115).Overlay histogram showing Hela cells stained with AAA127115 (Blue line). To facilitate intracellular staining, cells were fixed with 4% paraformaldehyde and permeabilized with permeabilization buffer. The cells were blocked with 10% normal goat serum. And then incubated with rabbit anti-hnRNP E2/PCBP2 Antibody (AAA127115, 1ug/1x106 cells) for 30 min at 20 degree C. DyLight488 conjugated goat anti-rabbit IgG was used as secondary antibody for 30 minutes at 20 degree C. Isotype control antibody (Green line) was rabbit IgG (1ug/1x106) used under the same conditions. Unlabelled sample without incubation with primary antibody and secondary antibody (Red line) was used as a blank control.



IF (Immunofluorescence)

Figure 2. IF analysis of hnRNP E2/PCBP2 using anti-hnRNP E2/PCBP2 antibody (AAA127115) and anti-Tubulin Alpha antibody (M03989-3).hnRNP E2/PCBP2 was detected in immunocytochemical section of PC-3 cell. Enzyme antigen retrieval was performed using IHC enzyme antigen retrieval reagent for 15 mins. The cells were blocked with 10% goat serum. And then incubated with 5ug/mL rabbit anti-hnRNP E2/PCBP2 Antibody (AAA127115) and mouse anti-Tubulin Alpha antibody (M03989-3) overnight at 4 degree C. Cy3 Conjugated Goat Anti-Rabbit IgG (BA1032) and DyLight488 Conjugated Goat Anti-Mouse IgG (BA1126) were used as secondary antibody at 1:500 dilution and incubated for 30 minutes at 37 degree C. Visualize using a fluorescence microscope and filter sets appropriate for the label used.



WB (Western Blot)

Figure 1. Western blot analysis of hnRNP E2/PCBP2 using anti-hnRNP E2/PCBP2 antibody (AAA127115).Electrophoresis was performed on a 5-20% SDS-PAGE gel at 70V (Stacking gel)/90V (Resolving gel) for 2-3 hours. The sample well of each lane was loaded with 30 ug of sample under reducing conditions.Lane 1: human Hela whole cell lysates,Lane 2: human Jurkat whole cell lysates,Lane 3: human 293T whole cell lysates,Lane 4: human Raji whole cell lysates,Lane 5: rat PC-12 whole cell lysates,Lane 6: rat C6 whole cell lysates,Lane 7: mouse RAW264.7 whole cell lysates.After electrophoresis, proteins were transferred to a nitrocellulose membrane at 150 mA for 50-90 minutes. Blocked the membrane with 5% non-fat milk/TBS for 1.5 hour at RT. The membrane was incubated with rabbit anti-hnRNP E2/PCBP2 antigen affinity purified polyclonal antibody (#AAA127115) at 0.25ug/mL overnight at 4 degree C, then washed with TBS-0.1%Tween 3 times with 5 minutes each and probed with a goat anti-rabbit IgG-HRP secondary antibody at a dilution of 1:5000 for 1.5 hour at RT. The signal is developed using an Enhanced Chemiluminescent detection (ECL) kit with Tanon 5200 system. A specific band was detected for hnRNP E2/PCBP2 at approximately 40 kDa. The expected band size for hnRNP E2/PCBP2 is at 39 kDa.

ADDITIONAL INFORMATION

Related Product Information for anti-hnRNP E2/PCBP2 antibody	The brand Picoband indicates this is a premium antibody that guarantees superior quality, high affinity, and strong signals with minimal background in Western blot applications. Only our best-performing antibodies are designated as Picoband, ensuring unmatched performance.
Product Categories/Family for anti-hnRNP E2/PCBP2 antibody	Primary Antibodies; Cardiovascular; Immunology

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.
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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.