

Rabbit APP-1/PABPC4 Polyclonal Antibody | anti-PABPC4 antibody

Anti-APP-1/PABPC4 Antibody Picoband

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA19592	Rabbit	Human, Mouse, Rat	Western Blot, Immunohistochemistry, Immunocytochemistry, Immunofluorescence, Flow Cytometry, Functional Assay

PRODUCT SYNONYMS

APP-1/PABPC4; Polyclonal Antibody; Anti-APP-1/PABPC4 Antibody Picoband; anti-PABPC4 antibody

PRODUCT SPECIFICATIONS

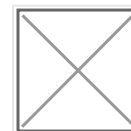
Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Isotype	Rabbit IgG
Purity/Purification	Immunogen affinity purified.
Form/Format	Lyophilized Each vial contains 4 mg Trehalose, 0.9 mg NaCl, 0.2 mg Na ₂ HPO ₄ .
Concentration	Adding 0.2 ml of distilled water will yield a concentration of 500 ug/ml. (varies by lot)
Applicable Applications for anti-PABPC4 antibody	WB (Western Blot), IHC (Immunohistochemistry), ICC (Immunocytochemistry), IF (Immunofluorescence), FCM/FACS (Flow Cytometry)
Application Notes	WB: 0.25-0.5 ug/ml, Human, Mouse, Rat IHC-P: 2-5 ug/ml, Human ICC/IF: 5 ug/ml, Human FC/FACS: 1-3 ug/1x10 ⁶ cells, Human, Mouse Tested Species: In-house tested species with positive results. Enhanced Chemiluminescent Kit with anti-Rabbit IgG for Western blot, and HRP Conjugated anti-Rabbit IgG Super Vision Assay Kit for IHC(P) and ICC.
Reconstitution	Adding 0.2 ml of distilled water will yield a concentration of 500 ug/ml.
Immunogen	A synthetic peptide corresponding to a sequence of human APP-1/PABPC4 (RPPYYTPNQLAQMRPNPRWQQ).
Preparation and Storage	Store 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.

IMAGES



FCM (Flow Cytometry)

Figure 6. Flow Cytometry analysis of RAW264.7 cells using anti-APP-1/PABPC4 antibody (AAA19592). Overlay histogram showing RAW264.7 cells stained with AAA19592 (Blue line). The cells were blocked with 10% normal goat serum. And then incubated with rabbit anti-APP-1/PABPC4 Antibody (AAA19592, 1 ug/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 (1 ug/1x10⁶) used under the same conditions. Unlabelled sample (Red line) was also used as a control.



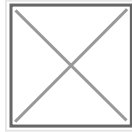
FCM (Flow Cytometry)

Figure 5. Flow Cytometry analysis of HEL cells using anti-APP-1/PABPC4 antibody (AAA19592). Overlay histogram showing HEL cells stained with AAA19592 (Blue line). The cells were blocked with 10% normal goat serum. And then incubated with rabbit anti-APP-1/PABPC4 Antibody (AAA19592, 1 ug/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 (1 ug/1x10⁶) used under the same conditions. Unlabelled sample (Red line) was also used as a control.



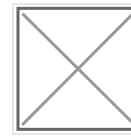
IF (Immunofluorescence)

Figure 4. IF analysis of APP-1/PABPC4 using anti-APP-1/PABPC4 antibody (AAA19592).APP-1/PABPC4 was detected in an immunocytochemical section of SiHa cells. Enzyme antigen retrieval was performed using IHC enzyme antigen retrieval reagent (AR0022) for 15 mins. The cells were blocked with 10% goat serum. And then incubated with 5 ug/mL rabbit anti-APP-1/PABPC4 Antibody (AAA19592) overnight at 4 degree C. DyLight488 Conjugated Goat Anti-Rabbit IgG was used as secondary antibody at 1:100 dilution and incubated for 30 minutes at 37 degree C. The section was counterstained with DAPI. Visualize using a fluorescence microscope and filter sets appropriate for the label used.



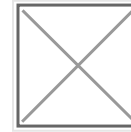
IHC (Immunohistochemistry)

Figure 2. IHC analysis of APP-1/PABPC4 using anti-APP-1/PABPC4 antibody (AAA19592).APP-1/PABPC4 was detected in a paraffin-embedded section of human cervical cancer tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH 8.0, epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 2 ug/ml rabbit anti-APP-1/PABPC4 Antibody (AAA19592) overnight at 4 degree C. Peroxidase Conjugated Goat Anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37 degree C. The tissue section was developed using HRP Conjugated Rabbit IgG Super Vision Assay Kit with DAB as the chromogen.



IHC (Immunohistochemistry)

Figure 3. IHC analysis of APP-1/PABPC4 using anti-APP-1/PABPC4 antibody (AAA19592).APP-1/PABPC4 was detected in a paraffin-embedded section of human tonsil tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH 8.0, epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 2 ug/ml rabbit anti-APP-1/PABPC4 Antibody (AAA19592) overnight at 4 degree C. Peroxidase Conjugated Goat Anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37 degree C. The tissue section was developed using HRP Conjugated Rabbit IgG Super Vision Assay Kit with DAB as the chromogen.



WB (Western Blot)

Figure 1. Western blot analysis of APP-1/PABPC4 using anti-APP-1/PABPC4 antibody (AAA19592).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 293T whole cell lysates,Lane 3: human PC-3 whole cell lysates,Lane 4: human THP-1 whole cell lysates,Lane 5: human RT4 whole cell lysates,Lane 6: human A431 whole cell lysates,Lane 7: human Daudi whole cell lysates,Lane 8: rat testis tissue lysates,Lane 9: rat heart tissue lysates,Lane 10: rat brain tissue lysates,Lane 11: rat L6 whole cell lysates,Lane 12: mouse heart tissue lysates,Lane 13: mouse brain tissue lysates,Lane 14: mouse NIH/3T3 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-APP-1/PABPC4 antigen affinity purified polyclonal antibody (#AAA19592) at 0.5 ug/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 APP-1/PABPC4 at approximately 75 kDa. The expected band size for APP-1/PABPC4 is at 71 kDa.

ADDITIONAL INFORMATION

Related Product Information for anti-PABPC4 antibody

Polyadenylate-binding protein 4 (PABPC4) is a protein that in humans is encoded by the PABPC4 gene. Poly(A)-binding proteins (PABPs) bind to the poly(A) tail present at the 3-prime ends of most eukaryotic mRNAs. PABPC4 or IPABP (inducible PABP) was isolated as an activation-induced T-cell mRNA encoding a protein. Activation of T cells increased PABPC4 mRNA levels in T cells approximately 5-fold. PABPC4 contains 4 RNA-binding domains and proline-rich C terminus. PABPC4 is localized primarily to the cytoplasm. It is suggested that PABPC4 might be necessary for regulation of stability of labile mRNA species in activated T cells. PABPC4 was also identified as an antigen, APP1 (activated-platelet protein-1), expressed on thrombin-activated rabbit platelets. PABPC4 may also be involved in the regulation of protein translation in platelets and megakaryocytes or may participate in the binding or stabilization of polyadenylates in platelet dense granules. Alternatively spliced transcript variants encoding different isoforms have been found for this gene. This protein has also been found to interact with coronavirus nucleocapsid proteins and is thought to inhibit coronavirus replication.

Product Categories/Family for anti-PABPC4 antibody

[Primary Antibodies](#), [Rabbit Polyclonal Antibodies](#)

NCBI AND UNIPROT INFORMATION

NCBI GI #	208431833
NCBI GeneID	8761
NCBI Accession #	NP_001129125.1
NCBI GenBank Nucleotide #	NM_001135653.1
UniProt Accession #	Q13310 ; Q4VC03 ; Q6P0N3 ; B1ANQ8

Molecular Weight	72,391 Da
NCBI Official Full Name	polyadenylate-binding protein 4 isoform 1
NCBI Official Synonym Full Names	poly(A) binding protein cytoplasmic 4
NCBI Official Symbol	PABPC4
NCBI Official Synonym Symbols	APP1; APP-1; PABP4; iPABP
NCBI Protein Information	polyadenylate-binding protein 4
UniProt Protein Name	Polyadenylate-binding protein 4
UniProt Gene Name	PABPC4
UniProt Synonym Gene Names	APP1; PABP4; PABP-4; Poly(A)-binding protein 4; APP-1; iPABP

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/app-1-pabpc4-antibody-western-blot-immunohistochemistry-immunocytochemistry-immunofluorescence-flow-cytometry-elisa/19592>