

**PABPC4 Antibody (Center)**  
**Affinity Purified Rabbit Polyclonal Antibody (Pab)**  
**Catalog # AP17240c**

**Specification**

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**PABPC4 Antibody (Center) - Product Information**

Application	WB,E
Primary Accession	<a href="#">O13310</a>
Other Accession	<a href="#">NP_003810.1</a> , <a href="#">NP_001129126.1</a>
Reactivity	Human
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Calculated MW	70783
Antigen Region	219-247

**PABPC4 Antibody (Center) - Additional Information**

**Gene ID** 8761

**Other Names**

Polyadenylate-binding protein 4, PABP-4, Poly(A)-binding protein 4, Activated-platelet protein 1, APP-1, Inducible poly(A)-binding protein, iPABP, PABPC4, APP1, PABP4

**Target/Specificity**

This PABPC4 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 219-247 amino acids from the Central region of human PABPC4.

**Dilution**

WB~~1:1000

**Format**

Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.

**Storage**

Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

**Precautions**

PABPC4 Antibody (Center) is for research use only and not for use in diagnostic or therapeutic procedures.

**PABPC4 Antibody (Center) - Protein Information**

**Name** PABPC4

**Synonyms** APP1, PABP4

**Function** Binds the poly(A) tail of mRNA (PubMed:[8524242](#)). Binds to SMIM26 mRNA and plays a role in its post-transcriptional regulation (PubMed:[37009826](#)). May be involved in cytoplasmic regulatory processes of mRNA metabolism. Can probably bind to cytoplasmic RNA sequences other than poly(A) in vivo (By similarity).

#### **Cellular Location**

Cytoplasm. Note=Localized in cytoplasmic mRNP granules containing untranslated mRNAs.

#### **Tissue Location**

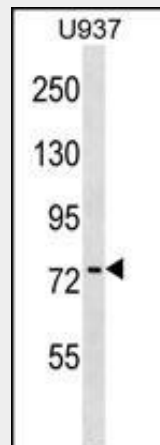
Expressed at low levels in resting normal T cells; following T-cell activation, however, mRNA levels are rapidly up- regulated

### **PABPC4 Antibody (Center) - Protocols**

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

### **PABPC4 Antibody (Center) - Images**



PABPC4 Antibody (Center) (Cat. #AP17240c) western blot analysis in U937 cell line lysates (35ug/lane). This demonstrates the PABPC4 antibody detected the PABPC4 protein (arrow).

### **PABPC4 Antibody (Center) - Background**

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.

#### **PABPC4 Antibody (Center) - References**

- Jonson, L., et al. Mol. Cell Proteomics 6(5):798-811(2007)
- Ewing, R.M., et al. Mol. Syst. Biol. 3, 89 (2007) :
- Olsen, J.V., et al. Cell 127(3):635-648(2006)
- Rush, J., et al. Nat. Biotechnol. 23(1):94-101(2005)
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