

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

Specification

PABPC4 Antibody (Center) - Product Information

Application	WB,E
Primary Accession	Q13310
Other Accession	NP_003810.1 , NP_001129126.1
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

E~~Use at an assay dependent concentration.

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.

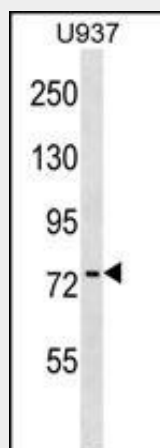
Tissue Location

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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