

PABPC4 Antibody (Center) Blocking Peptide
Synthetic peptide
Catalog # BP17240c**Specification**

PABPC4 Antibody (Center) Blocking Peptide - Product Information

Primary Accession [Q13310](#)

PABPC4 Antibody (Center) Blocking Peptide - 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

Format

Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

Storage

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

Precautions

This product is for research use only. Not for use in diagnostic or therapeutic procedures.

PABPC4 Antibody (Center) Blocking Peptide - Protein Information

Name PABPC4

Synonyms APP1, PABP4

Function

Binds the poly(A) tail of mRNA. 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) Blocking Peptide - Protocols

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

- [Blocking Peptides](#)

PABPC4 Antibody (Center) Blocking Peptide - Images

PABPC4 Antibody (Center) Blocking Peptide - 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) Blocking Peptide - 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) Rush, J., et al. Nat. Biotechnol. 23(1):94-101(2005)