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[Marker Primary Antibody]

Rabbit Anti-PABPC4/Biotin Conjugated antibody

Catalog Number: SL19996R-Bio

FOR RESEARCH USE ONLY

[DATASHEET]

Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Target:	Anti-PABPC4/Biotin
Immunogen:	KLH conjugated synthetic peptide derived from human PABPC4
Purification:	affinity purified by Protein A
Concentration:	1mg/ml
Storage:	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. The lyophilized antibody is stable at room temperature for at least one month and for greater than a year when kept at -20°C. When reconstituted in sterile pH 7.4 1M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.
Applications:	IHC-P=1:100-500 IHC-F=1:100-500 ICC/IF=1:50-200 IF=1:100-500 ELISA=1:500-5000 not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Reactivity:	(predicted:Human,Mouse,Rat,Dog,Pig,Cow,Horse,Rabbit,Sheep)
Background:	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

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	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. [provided by RefSeq, Oct 2008] **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. **Subunit:** Identified in a IGF2BP1-dependent mRNP granule complex containing untranslated mRNAs. Interacts with NFX1. **Subcellular Location:** Cytoplasm. Localized in cytoplasmic mRNP granules containing untranslated mRNAs. **Tissue Specificity:** Expressed at low levels in resting normal T cells; following T-cell activation, however, mRNA levels are rapidly up-regulated. **Post-translational modifications:** Arg-518 is dimethylated, probably to asymmetric dimethylarginine. **Similarity:** Belongs to the polyadenylate-binding protein type-1 family. Contains 1 PABC domain. Contains 4 RRM (RNA recognition motif) domains. **Database links:** **Entrez Gene:** 8761 Human **Entrez Gene:** 230721 Mouse **Entrez Gene:** 298510 Rat Omim: 603407 Human **SwissProt:** Q13310 Human **Unigene:** 169900 Human **Unigene:** 277091 Mouse **Unigene:** 201330 Rat Important **Note:** This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.