10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

PAIP1 Antibody (N-term)

Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP19021a

Product Information

Application	WB, E
Primary Accession	Q9H074
Other Accession	NP_006442.2
Reactivity	Human
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Clone Names	RB39604
Calculated MW	53525
Antigen Region	23-49

Additional Information

Gene ID	10605
Other Names	Polyadenylate-binding protein-interacting protein 1, PABP-interacting protein 1, PAIP-1, Poly(A)-binding protein-interacting protein 1, PAIP1
Target/Specificity	This PAIP1 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 23-49 amino acids from the N-terminal region of human PAIP1.
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	PAIP1 Antibody (N-term) is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	PAIP1 (HGNC:16945)
Function	Acts as a coactivator in the regulation of translation initiation of poly(A)-containing mRNAs. Its stimulatory activity on translation is mediated via its action on PABPC1. Competes with PAIP2 for binding to PABPC1. Its

association with EIF4A and PABPC1 may potentiate contacts between mRNA termini. May also be involved in translationally coupled mRNA turnover. Implicated with other RNA- binding proteins in the cytoplasmic deadenylation/translational and decay interplay of the FOS mRNA mediated by the major coding-region determinant of instability (mCRD) domain.

Cellular Location Cytoplasm.

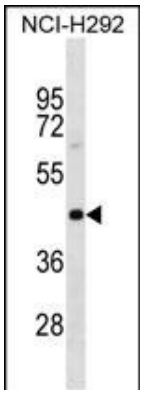
Background

The protein encoded by this gene interacts with poly(A)-binding protein and with the cap-binding complex eIF4A. It is involved in translational initiation and protein biosynthesis. Overexpression of this gene in COS7 cells stimulates translation. Alternative splicing occurs at this locus and three transcript variants encoding three distinct isoforms have been identified.

References

Kanaan, A.S., et al. Acta Crystallogr. Sect. F Struct. Biol. Cryst. Commun. 65 (PT 10), 1060-1064 (2009) :
Martineau, Y., et al. Mol. Cell. Biol. 28(21):6658-6667(2008)
Fortna, A., et al. PLoS Biol. 2 (7), E207 (2004) :
Roy, G., et al. Mol. Cell. Biol. 22(11):3769-3782(2002)
Deo, R.C., et al. Proc. Natl. Acad. Sci. U.S.A. 98(8):4414-4419(2001)

Images



PAIP1 Antibody (N-term) (Cat. #AP19021a) western blot analysis in NCI-H292 cell line lysates (35ug/lane).This demonstrates the PAIP1 antibody detected the PAIP1 protein (arrow).

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.