

PAIP1 Polyclonal Antibody

Catalog number: 10675-1-AP

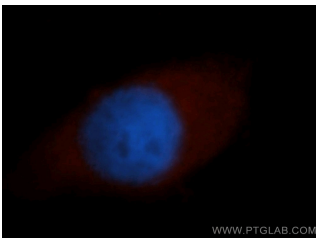
Size: 38 µg/150 µl

Source: Rabbit

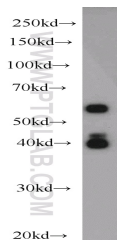
Isotype: IgG

Synonyms:

PAIP1; PABP interacting protein 1, PAIP 1, PAIP1



Immunofluorescent analysis of MCF-7 cells, using PAIP1 antibody 10675-1-AP at 1:50 dilution and Rhodamine-labeled goat anti-rabbit IgG (red). Blue pseudocolor = DAPI (fluorescent DNA dye).



HeLa cells were subjected to SDS PAGE followed by western blot with 10675-1-AP (PAIP1 antibody) at dilution of 1:1000

Background

In initiation of translation in eukaryotes, binding of the small ribosomal subunit to mRNA requires recognition of the 5-prime cap structure by the cap-binding complex eIF4F. eIF4F consists of eIF4E, eIF4A, and eIF4G. Translation initiation is further regulated by the mRNA 3-prime poly(A) tail and the poly(A)-binding protein (PABC1). PAIP1 interacts with PABC1 and some eIF4 complexes [PMID:9548260]. It is a coactivator in the regulation of translation initiation of poly(A)-containing mRNAs, and associates with EIF4A and PABPC1 may potentiate contacts between mRNA termini [PMID:11051545].

Applications

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|-------------------------|--|
| Tested applications: | ELISA, WB, IF |
| Cited applications: | WB |
| Species specificity: | Human, Mouse, Rat, Monkey; other species not tested. |
| Cited species: | Human |
| Calculated PAIP1 MW: | 70 kDa |
| Observed PAIP1 MW: | 60 kDa, 51 kDa, 40 kDa |
| Positive WB detected in | HeLa cells, BxPC-3 cells, COS-7 cells |
| Positive IF detected in | MCF-7 cells |
| Recommended dilution: | WB: 1:500-1:5000 IF: 1:20-1:200 |

Application key: WB = Western blotting, IHC = Immunohistochemistry, IF = Immunofluorescence, IP = Immunoprecipitation

Immunogen information

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|---------------------------|---|
| Immunogen: | Ag1070 |
| GenBank accession number: | BC005295 |
| Gene ID (NCBI): | 10605 |
| Full name: | Poly(A) binding protein interacting protein 1 |

Product information

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|----------------------|---|
| Purification method: | Antigen affinity purification |
| Storage: | PBS with 0.1% sodium azide and 50% glycerol pH 7.3. Store at -20°C. |