

# Paip2A Antibody



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<b>Applications:</b> W	<b>Reactivity:</b> H M R Mk	<b>Sensitivity:</b> Endogenous	<b>MW (kDa):</b> 25	<b>Source/Isotype:</b> Rabbit	<b>UniProt ID:</b> #Q9BPZ3	<b>Entrez-Gene Id:</b> 51247
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## Product Usage Information

### Application

Western Blotting

### Dilution

1:1000

## Storage

Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 µg/ml BSA and 50% glycerol. Store at -20°C. Do not aliquot the antibody.

## Specificity/Sensitivity

Paip2A Antibody detects endogenous levels of total Paip2A protein.

## Source / Purification

Polyclonal antibodies are produced by immunizing animals with a synthetic peptide corresponding to human Paip2A. Antibodies are purified by protein A and peptide affinity chromatography.

## Background

The eukaryotic mRNA 3' poly(A) tail interacts with the 5' cap structure to regulate translation of mRNA transcripts (1). The eIF4G translation initiation factor associates with poly(A) binding protein (PABP) to circularize mRNA (1,2). Paip1 is a PABP interacting protein that binds eIF4A to stimulate translation (3). A second PABP binding protein, Paip2, inhibits translation by interfering with PABP function. Specifically, Paip2 reduces the affinity of PABP for poly(A) RNA and competes with Paip1 for PABP binding (1,2).

## Background References

1. Khaleghpour, K. et al. (2001) *Mol Cell* 7, 205-16.
2. Yoshida, M. et al. (2006) *EMBO J* 25, 1934-44.
3. Craig, A.W. et al. (1998) *Nature* 392, 520-3.

## Species Reactivity

Species reactivity is determined by testing in at least one approved application (e.g., western blot).

## Western Blot Buffer

**IMPORTANT:** For western blots, incubate membrane with diluted primary antibody in 5% w/v BSA, 1X TBS, 0.1% Tween@ 20 at 4°C with gentle shaking, overnight.

## Applications Key

**W:** Western Blotting

## Cross-Reactivity Key

**H:** Human **M:** Mouse **R:** Rat **Mk:** Monkey

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