Store at -20°C

#4422

Paip2A Antibody

☑ 100 µl
(10 western blots)

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This product is intended for research purposes only. This product is not intended to be used for therapeutic or diagnostic purposes in humans or animals.

Entrez-Gene ID #51247
Swiss-Prot Acc. #Q9BPZ3

Applications	Species Cross-Reactivity*	Molecular Wt.	Source
W Endogenous	H, M, R, Mk	25 kDa	Rabbit**

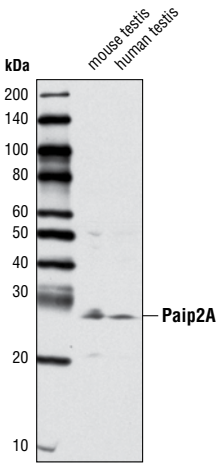
Background: The eukaryotic mRNA 3' poly(A) tail interacts with the 5' cap structure to regulate translation of mRNA transcripts (1). The eIF4G translation initiation factor associates with poly(A) binding protein (PABP) to circularize mRNA (1,2). Paip1 is a PABP interacting protein that binds eIF4A to 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).

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 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.



Western blot analysis of extracts from mouse testis and human testis using Paip2A Antibody.

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.*

***Species cross-reactivity is determined by western blot.**

****Anti-rabbit secondary antibodies must be used to detect this antibody.**

Recommended Antibody Dilutions:

Western blotting	1:1000

For application specific protocols please see the web page for this product at www.cellsignal.com.

Please visit www.cellsignal.com for a complete listing of recommended companion products.

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

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Applications Key: **W**—Western **IP**—Immunoprecipitation **IHC**—Immunohistochemistry **ChIP**—Chromatin Immunoprecipitation **IF**—Immunofluorescence **F**—Flow cytometry **E-P**—ELISA-Peptide

Species Cross-Reactivity Key: **H**—human **M**—mouse **R**—rat **Hm**—hamster **Mk**—monkey **Mi**—mink **C**—chicken **Dm**—D. melanogaster **X**—Xenopus **Z**—zebrafish **B**—bovine **Dg**—dog **Pg**—pig **Sc**—S. cerevisiae **Ce**—C. elegans **Hr**—Horse **All**—all species expected Species enclosed in parentheses are predicted to react based on 100% homology.