

Paip2b (E-13): sc-139206

BACKGROUND

Various PABP-interacting proteins bind to and regulate the activity of polyadenylate-binding protein (PABP), an essential, well-conserved, multi-functional protein involved in translational initiation, mRNA biogenesis and degradation. PABP enhances translation by circularizing mRNA through its interaction with the translation initiation factor eIF4G and mRNA's poly(A) tail. PABP-interacting proteins include PaiP1, a translational stimulator, and Paip2a and Paip2b, translational inhibitors. Paip1 is thought to act as a translational activator in 5' cap-dependent translation by interacting with PABP and the initiation factors eIF4A and eIF3, whereas Paip2 decreases the affinity of PABP for polyadenylate RNA, and disrupts the repeating structure of poly(A) ribonucleoprotein. Paip2b (poly(A) binding protein interacting protein 2B) is a 123 amino acid protein that may be involved in regulating PABP activity.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: PAIP2B (human) mapping to 2p13.3; Paip2b (mouse) mapping to 6 C3.

SOURCE

Paip2b (E-13) is an affinity purified goat polyclonal antibody raised against a peptide mapping within an internal region of Paip2b of human origin.

STORAGE

Store at 4° C, ****DO NOT FREEZE****. Stable for one year from the date of shipment. Non-hazardous. No MSDS required.

RESEARCH USE

For research use only, not for use in diagnostic procedures.

PRODUCT

Each vial contains 200 µg IgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

Blocking peptide available for competition studies, sc-139206 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

Paip2b (E-13) is recommended for detection of Paip2b of mouse, rat and human origin by Western Blotting (starting dilution 1:100, dilution range 1:50-1:500), immunofluorescence (starting dilution 1:25, dilution range 1:25-1:250) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000); non cross-reactive with Paip2.

Suitable for use as control antibody for Paip2b siRNA (h): sc-156100, Paip2b siRNA (m): sc-151995, Paip2b shRNA Plasmid (h): sc-156100-SH, Paip2b shRNA Plasmid (m): sc-151995-SH, Paip2b shRNA (h) Lentiviral Particles: sc-156100-V and Paip2b shRNA (m) Lentiviral Particles: sc-151995-V.

Molecular Weight of Paip2b: 14 kDa.

RECOMMENDED SECONDARY REAGENTS

To ensure optimal results, the following support (secondary) reagents are recommended: 1) Western Blotting: use donkey anti-goat IgG-HRP: sc-2020 (dilution range: 1:2000-1:100,000) or Cruz Marker™ compatible donkey anti-goat IgG-HRP: sc-2033 (dilution range: 1:2000-1:5000), Cruz Marker™ Molecular Weight Standards: sc-2035, TBS Blotto A Blocking Reagent: sc-2333 and Western Blotting Luminol Reagent: sc-2048. 2) Immunofluorescence: use donkey anti-goat IgG-FITC: sc-2024 (dilution range: 1:100-1:400) or donkey anti-goat IgG-TR: sc-2783 (dilution range: 1:100-1:400) with UltraCruz™ Mounting Medium: sc-24941.

PROTOCOLS

See our web site at www.scbt.com or our catalog for detailed protocols and support products.