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PABPC4 (m2): 293T Lysate: sc-125774

BACKGROUND

The PABPC4 (poly(A) binding protein, cytoplasmic 4) protein, also designated APP1 (activated-platelet protein 1), iPABP or PABP4, is a 644 amino acid cytoplasmic protein that contains one PABC domain and four RNA recognition motif domains. Expressed at low levels in resting T cells and at higher levels in activated T cells, PABPC4 functions to bind to the poly(A) tail of mRNA and, via this binding, is thought to be involved in metabolic processes that involve mRNA in the cytoplasm. Additionally, PABPC4 may be involved in the regulation of platelet and megakaryocyte formation and may bind and stabilize polyadenylates in platelet dense granules. Human PABPC4 shares 99% homology with its rabbit counterpart, suggesting a conserved role between species. Multiple isoforms of PABPC4 exist due to alternative splicing events.

REFERENCES

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2. Houg, A.K., Maggini, L., Clement, C.Y. and Reed, G.L. 1997. Identification and structure of activated-platelet protein-1, a protein with RNA-binding domain motifs that is expressed by activated platelets. *Eur. J. Biochem.* 243: 209-218.
3. Féral, C., Mattéi, M.G., Pawlak, A. and Guellaën, G. 1999. Chromosomal localization of three human poly(A)-binding protein genes and four related pseudogenes. *Hum. Genet.* 105: 347-353.
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6. Sladic, R.T., Lagnado, C.A., Bagley, C.J. and Goodall, G.J. 2004. Human PABP binds AU-rich RNA via RNA-binding domains 3 and 4. *Eur. J. Biochem.* 271: 450-457.
7. Katzenellenbogen, R.A., Egelkrout, E.M., Vliet-Gregg, P., Gewin, L.C., Gafken, P.R. and Galloway, D.A. 2007. NFX1-123 and poly(A) binding proteins synergistically augment activation of telomerase in human papillomavirus type 16 E6-expressing cells. *J. Virol.* 81: 3786-3796.

CHROMOSOMAL LOCATION

Genetic locus: *Pabpc4* (mouse) mapping to 4 D2.2.

PRODUCT

PABPC4 (m2): 293T Lysate represents a lysate of mouse PABPC4 transfected 293T cells and is provided as 100 µg protein in 200 µl SDS-PAGE buffer.

STORAGE

Store at -20° C. Repeated freezing and thawing should be minimized. Sample vial should be boiled once prior to use. Non-hazardous. No MSDS required.

APPLICATIONS

PABPC4 (m2): 293T Lysate is suitable as a Western Blotting positive control for mouse reactive PABPC4 antibodies. Recommended use: 10-20 µl per lane.

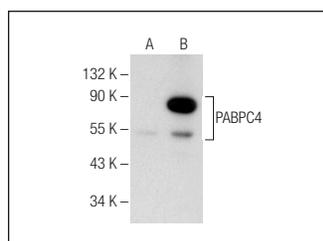
Control 293T Lysate: sc-117752 is available as a Western Blotting negative control lysate derived from non-transfected 293T cells.

PABP (A-4): sc-166381 is recommended as a positive control antibody for Western Blot analysis of enhanced mouse PABPC4 expression in PABPC4 transfected 293T cells (starting dilution 1:100, dilution range 1:100-1:1,000).

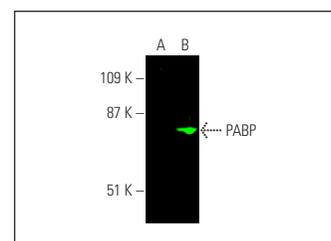
RECOMMENDED SUPPORT REAGENTS

To ensure optimal results, the following support reagents are recommended:
 1) Western Blotting: use m-IgGκ BP-HRP: sc-516102 or m-IgGκ BP-HRP (Cruz Marker): sc-516102-CM (dilution range: 1:1000-1:10000), Cruz Marker™ Molecular Weight Standards: sc-2035, UltraCruz® Blocking Reagent: sc-516214 and Western Blotting Luminol Reagent: sc-2048.

DATA



PABP (A-4): sc-166381. Western blot analysis of PABPC4 expression in non-transfected: sc-117752 (A) and mouse PABPC4 transfected: sc-125774 (B) 293T whole cell lysates.



PABP (A-4): sc-166381. Near-infrared western blot analysis of PABP expression in non-transfected: sc-117752 (A) and mouse PABPC4 transfected: sc-125774 (B) 293T whole cell lysates. Blocked with UltraCruz® Blocking Reagent: sc-516214. Detection reagent used: m-IgGκ BP-CFL 680: sc-516180.

RESEARCH USE

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

PROTOCOLS

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