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PICK1 (h3): 293T Lysate: sc-171561

BACKGROUND

Protein interacting with C kinase 1 (PICK1) is a PDZ-domain containing protein that is located in the perinuclear region and is phosphorylated in response to PKC α activation. PKC α , which is essential for the regulation of proliferation and differentiation in numerous cell types, contains within its catalytic region a PDZ-binding domain that is absent from other PKC isoforms. Mutation of the PICK1 PDZ domain inhibits the binding of PICK1 to PKC α . PICK1 also interacts with the carboxy-terminus of α -amino-3-hydroxy-5-methyl-isoxazole-4-propionic acid (AMPA) receptor, a neurotransmitter receptor located at excitatory synapses, suggesting that PICK1 plays a role in the modulation of synaptic transmission by targeting and anchoring AMPA to specific synapses.

REFERENCES

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2. Staudinger, J., Lu, J. and Olson, E.N. 1997. Specific interaction of the PDZ domain protein PICK1 with the COOH-terminus of protein kinase C α . *J. Biol. Chem.* 272: 32019-32024.
3. Xia, J., Zhang, X., Staudinger, J. and Haganir, R.L. 1999. Clustering of AMPA receptors by the synaptic PDZ domain-containing protein PICK1. *Neuron* 22: 179-187.
4. Wyszynski, M., Valtschanoff, J.G., Naisbitt, S., Dunah, A.W., Kim, E., Standaert, D.G., Weinberg, R. and Sheng, M. 1999. Association of AMPA receptors with a subset of glutamate receptor-interacting protein *in vivo*. *J. Neurosci.* 19: 6528-6537.
5. Dev, K.K., Nishimune, A., Henley, J.M. and Nakanishi, S. 1999. The protein kinase C α binding protein PICK1 interacts with short but not long form alternative splice variants of AMPA receptor subunits. *Neuropharmacology* 38: 635-644.

CHROMOSOMAL LOCATION

Genetic locus: PICK1 (human) mapping to 22q13.1.

PRODUCT

PICK1 (h3): 293T Lysate represents a lysate of human PICK1 transfected 293T cells and is provided as 100 μ g protein in 200 μ l SDS-PAGE buffer.

RESEARCH USE

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

APPLICATIONS

PICK1 (h3): 293T Lysate is suitable as a Western Blotting positive control for human reactive PICK1 antibodies.

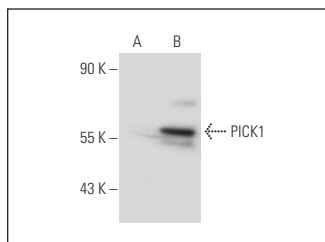
Control 293T Lysate: sc-117752 is available as a Western Blotting negative control lysate derived from non-transfected 293T cells.

PICK1 (C-4): sc-74592 is recommended as a positive control antibody for Western Blot analysis of enhanced human PICK1 expression in PICK1 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-IgG κ BP-HRP: sc-516102 or m-IgG κ 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



PICK1 (C-4): sc-74592. Western blot analysis of PICK1 expression in non-transfected: sc-117752 (A) and human PICK1 transfected: sc-171561 (B) 293T whole cell lysates.

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.

PROTOCOLS

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