

PCP-2 (m): 293T Lysate: sc-122437

BACKGROUND

Purkinje cells are densely branching neurons characteristic of the cerebellar cortex. Purkinje cell protein-2 (PCP-2 or L7) is a G protein-regulator abundant in Purkinje cells and retinal bipolar neurons. PCP-2 belongs to a family of proteins containing a GoLoco or GPR (G protein-regulatory) motif named for the $G_{i/o}$ interacting protein Loco, the *Drosophila* RGS12 homologue. PCP-2 protein interacts with $G_{\alpha i/o}$ family of G proteins to inhibit GDP release. This indicates that the co-localization and association of $G_{\alpha i/o}$ and PCP-2 in cerebellum may play a functional role in regions of synaptic activity, as well as neural differentiation. The Purkinje type calcium channels may be physiological effectors of PCP-2 because they are the major voltage-dependent channels that modulate cell output and they are regulated by $G_{i/o}$ proteins. PCP-2 is only detected in higher vertebrates, suggesting that it may be a marker of more recent evolutionary development of cerebellar Purkinje cells.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: *Pcp2* (mouse) mapping to 8 A1.1.

PRODUCT

PCP-2 (m): 293T Lysate represents a lysate of mouse PCP-2 transfected 293T cells and is provided as 100 μ g protein in 200 μ l SDS-PAGE buffer.

APPLICATIONS

PCP-2 (m): 293T Lysate is suitable as a Western Blotting positive control for mouse reactive PCP-2 antibodies. Recommended use: 10-20 μ l per lane.

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

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.

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.