

GABARAP (m2): 293T Lysate: sc-125365

BACKGROUND

In the central nervous system GABA functions as the main inhibitory transmitter by increasing a Cl⁻ conductance that inhibits neuronal firing. GABA has been shown to activate both ionotropic (GABA_A) and metabotropic (GABA_B) receptors as well as a third class of receptors called GABA_C. In addition to GABA receptors, several proteins have been identified as regulators of GABA function, including GAD65, GAD67, GABA transporters and GABARAP (GABA_A receptor-associated protein). GABARAP associates with GABA_A Ry2 to link GABA_A receptors to the cytoskeleton. The GABARAP protein sequence is similar to light chain-3 of microtubule-associated proteins (MAPs), suggesting that it may be a type of MAP or a component of a MAP complex.

REFERENCES

1. Cherubini, E., Gaiarsa, J.L. and Ben-Ari, Y. 1991. GABA: an excitatory transmitter in early postnatal life. *Trends Neurosci.* 14: 515-519.
2. Dirx, R., Jr., Thomas, A., Li, L., Lernmark, A., Sherwin, R.S., De Camilli, P. and Solimena, M.J. 1995. Targeting of the 67 kDa isoform of glutamic acid decarboxylase to intracellular organelles is mediated by its interaction with the NH₂-terminal region of the 65 kDa isoform of glutamic acid decarboxylase. *Biol. Chem.* 270: 2241-2246.
3. Lukasiewicz, P.D. 1996. GABA_C receptors in the vertebrate retina. *Mol. Neurobiol.* 12: 181-194.
4. Borden, L.A. 1996. GABA transporter heterogeneity: pharmacology and cellular localization. *Neurochem. Int.* 29: 335-356.
5. Kaupmann, K., Schuler, V., Mosbacher, J., Bischoff, S., Bittiger, H., Heid, J., Froestl, W., Leonhard, S., Pfaff, T., Karschin, A. and Bettler B. 1998. Human γ -aminobutyric acid type B receptors are differentially expressed and regulate inwardly rectifying K⁺ channels. *Proc. Natl. Acad. Sci. USA* 95: 14991-14996.
6. Wang, H., Bedford, F.K., Brandon, N.J., Moss, S.J. and Olsen, R.W. 1999. GABA_A-receptor-associated protein links GABA_A receptors and the cytoskeleton. *Nature* 397: 69-72.

CHROMOSOMAL LOCATION

Genetic locus: Gabarap (mouse) mapping to 11 B3.

PRODUCT

GABARAP (m2): 293T Lysate represents a lysate of mouse GABARAP transfected 293T cells and is provided as 100 μ g protein in 200 μ l SDS-PAGE buffer.

APPLICATIONS

GABARAP (m2): 293T Lysate is suitable as a Western Blotting positive control for mouse reactive GABARAP 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.

RESEARCH USE

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

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.