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Product Description

Monoclonal anti Ca-channel α -2 subunit

Product : Mouse monoclonal antibody to the Ca-channel α 2-subunit.

Code No. : A6

Lot No.: 24.4

Form : Liquid, in 100 mM HEPES, 20 nM Na-citrate, pH 7.4, with 0.05% Na-azide.

Quantity: 200 μ l.

Description: This antibody was produced by immunizing Balb/c mice with the α 2-subunit of the Ca-channel protein purified from the T-tubular membranes of rabbit skeletal muscles. Clones secreting antibodies specific for this subunit were detected by Western-blots. The figure shows that in immunoblots this antibody recognizes a polypeptide of 135 kDa, which correspond to the α 2-subunit of the Ca-channel. The antibodies have been purified on a Protein A-sepharose column.

Antibody specificity:

The antibody recognizes the calcium-channel of skeletal muscles in following species: fish, frog, chicken, pig, sheep, bovine, guinea pig, mouse, rat and human. It crossreact with the calcium-channel of other tissue including brain, cardiac muscle, uterus and trachea.

Working dilutions:

Immunohistochemistry : 1:5'000 - 1:10'000 with the avidin-biotin method.

Immunoblots (with Bio Rad Mini-Protean II™): 1:5'000-1:10'000.

We recommend that the optimal dilutions be determined by titration experiments.

Storage:

For continuous use keep at 4°C. For long storage, keep small aliquots(1-2 μ l) at - 80°C (or at least - 20°C). Avoid repeated freezing and thawing.

References:

1. Schneider et al. (1992) Purification and structure of L-type Calcium-channels. In: Methods in Molecular Biology., Vol. 13: Protocols in molecular Neurobiology. Ed. A. Longstaff and P. Revest. Humana Press, Totowa, NJ. Pp273-286.
2. Smith R.G. et al. (1992) Serum antibodies to L-type calcium-channels in patients with amyotrophic lateral sclerosis. New Engl. J. Med. 327: 1721-1728.
3. Hullin R., et al. (1993) Tissue specific expression of calcium-channels. Trends Cardiovasc. Med.3:48-53.