

alpha2/delta Calcium Channel. Rabbit Polyclonal Antibody, Human, Mouse, Rat

BACKGROUND

The calcium channel alpha2/delta subunit is a glycosylated structural subunit consisting of the alpha2 subunit and the delta peptide. There is distinctive alpha2 subunit expression in rat spinal cord and dorsal root ganglia (DRG). There are two forms of the alpha2 subunit in DRG that are different from the alpha2 subunit in other tissues examined, at least at the glycosylation level. Thus, post-translational modification may be important in tissue specific and functional expression of the alpha2/delta subunit (2). alpha2/delta and beta1b interact with alpha1G to increase trafficking of, or stabilize, functional alpha1G channels expressed at the plasma membrane.(3)

ORDERING INFORMATION

CATALOG NUMBER
X1512P

SIZE
100 µg

FORM
Purified

HOST/CLONE
Rabbit

FORMULATION
Provided as solution in phosphate buffered saline with 0.08% sodium azide

CONCENTRATION
1 mg/ml

ISOTYPE
Polyclonal

APPLICATIONS
Western Blotting

IMMUNOGEN

Synthetic peptide derived from the rat alpha2/delta calcium channel conjugated to KLH

SPECIES REACTIVITY

Human, Mouse, Rat

Legend:

Western blot analysis using anti-Acinus (NT) antibody at 1.0 µg/ml on K562 cell lysate.



For research use only. Not for use in human diagnostics or therapeutics.

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POSITIVE CONTROL

Rat brain lysate

COMMENTS

This antibody can be used for Western blotting (5-10 µg/ml). Optimal concentration should be evaluated by serial dilutions.

SHIP CONDITIONS

Ship at ambient temperature, freeze upon arrival

STORAGE CUSTOMER

Product should be stored at -20 degrees C. Aliquot to avoid freeze/thaw cycles

STABILITY

Products are stable for one year from purchase when stored properly

REFERENCES

1. Kim, H.L et.al. "Rat brain expresses an alternatively spliced form of the dihydropyridine-sensitive L-type calcium channel alpha 2 subunit." Proc. Natl. Acad. Sci. U.S.A. 89 (8), 3251-3255 (1992)
2. Luo, Z.D. "Rat dorsal root ganglia express distinctive forms of the alpha2 calcium channel subunit." Neuroreport.;11(16):3449-52 (2000)
3. Dolphin, AC et al. "The effect of alpha2-delta and other accessory subunits on expression and properties of the calcium channel alpha1G." J Physiol.;519 Pt 1:35-45.(1999)

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