

## **α2/delta Calcium Channel. Rabbit Polyclonal Antibody , Human, Rat**

### **BACKGROUND**

The calcium channel α2/delta subunit is a glycosylated structural subunit consisting of the α2 subunit and the delta peptide. There is distinctive α2 subunit expression in rat spinal cord and dorsal root ganglia (DRG) There are two forms of the α2 subunit in DRG that are different from the α2 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 α2/delta subunit (2). α2/delta and β1b interact with α1G to increase trafficking of, or stabilize, functional α1G channels expressed at the plasma membrane.(3)

### **ORDERING INFORMATION**

**CATALOG NUMBER**  
X1512P

**SIZE**  
100 μg

**FORM**  
Unconjugated

**HOST/CLONE**  
Rabbit

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

**CONCENTRATION**  
1 mg/ml

**ISOTYPE**  
IgG

**APPLICATIONS**  
Western Blot

### **IMMUNOGEN**

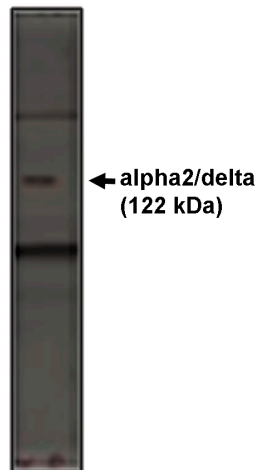
Synthetic peptide derived from the rat α2/delta calcium channel conjugated to KLH

### **SPECIES REACTIVITY**

Human, Rat

### **Legend:**

Western blot analysis using α2/δ antibody on rat brain lysate at 5 μg/ml.



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

**POSITIVE CONTROL/TISSUE EXPRESSION**

Rat brain lysate

**COMMENTS**

This antibody can be used for Western blotting (5-10  $\mu$ g/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°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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