

**MOUSE ANTI-CALRETININ
MONOCLONAL ANTIBODY****CATALOG NUMBER:** MAB1568**LOT NUMBER:****QUANTITY:** 100 µg**CONCENTRATION:** 1 mg/mL**SPECIFICITY:** Calretinin

Calretinin is a neuron specific calcium binding protein (31 kDa) found mostly in the CNS and retina. It is present in subsets of neurons throughout the brain and spinal cord, including sensory ganglia. It shares about 55% amino acid homology with calbindin, another calcium binding protein found in brain and periphery. Studies suggest that calretinin, like calbindin, may be neuroprotective.

IMMUNOGEN: Recombinant rat calretinin (1).**ISOTYPE:** IgG₁**APPLICATIONS:** Western blot: 1:1,000-1:3,000
Immunohistochemistry on rat brain tissue:
IFA: 1:1,000-1:5,000
PAP: 1:1,000-1:5,000

The antibody has been used successfully on formalin-fixed, paraffin embedded human tissue after pre-treatment of the tissue slides with citrate buffer and heat treatment. Suggested starting dilution 1:100-1:400. Proteolytic digestion with pepsin is detrimental to the immunostaining.

Optimal working dilutions must be determined by the end user.

SPECIES REACTIVITIES: Rat and human. Other species have not yet been tested.**FORMAT:** Purified immunoglobulin.**PRESENTATION:** Liquid in 0.02M Phosphate buffer, 0.25M NaCl, pH 7.6 with 0.1% sodium azide.**STORAGE/HANDLING:** Maintain at 2-8°C in undiluted aliquots for up six months after date of receipt.**REFERENCES:** Heinze, Liane, *et al* (2007). Diversity of glycine receptors in the mouse retina: localization of the alpha4 subunit. *J Comp Neurol* **500**: 693-707.
Kim, Tae-Jin, *et al* (2006). Distribution of AMPA glutamate receptor GluR1 subunit-immunoreactive neurons and their co-localization with calcium-binding proteins and GABA in the mouse visual cortex. *Mol Cells* **21**: 34-41.

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Important Note: During shipment, small volumes of antibody will occasionally become entrapped in the seal of the product vial. For antibodies with volumes of 200 μ l or less, we recommend gently tapping the vial on a hard surface or briefly centrifuging the vial in a tabletop centrifuge to dislodge any liquid in the container's cap.

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