Product Description

CR 7697
Rabbit anti Calretinin

**Product:** Rabbit anti-calretinin

**Code No:** 7697

**Lot no:** 1893-0114

**Form:** Lyophilized whole serum (no preservatives).

**Quantity:** 200 µl.

**Reconstitution:** with 200 µl of bidistilled water.

**Description**
The antisera against calretinin is produced in rabbits by immunization with recombinant human calretinin containing a 6-his tag at the N-terminal. The antibody was evaluated for specificity and potency: a) by Biotin-Avidin labeling of cryostate-, vibratome- and paraffin-sections of 4% paraformaldehyde fixed brains and b) by immunoenzymatic labelling of immunoblots.

The product is a polyclonal antiserum against calretinin (1), a calcium-binding protein of the EF-hand family related to calbindin D-28k and calmodulin. The antibody reacts specifically with calretinin in tissue originating from human, monkey, rat, mouse, guinea pig, chicken and fish (Fig. 1). This antiserum does not cross-react with calbindin D-28k or other known calcium binding-proteins, as determined by immunoblots and by its distribution in the brain (Fig. 2).

**Immunoblot**
In Fig. 1, extracts of soluble proteins were isolated from whole brains of different species and separated by SDS-PAGE. In the Western blot the antiserum 7697 specifically recognizes a band of 29-30k Da.

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Fig. 1 Immunoblot of brain homogenates of various species with antisera 7697. 1: Mouse, 2: Rat, 3. Guinea pig, 4. Rabbit, 5. Macaca fascicularis, 6. Zebrafish, 7. Chicken, 8. recombinant calretinin

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**Immunohistochemistry on Calretinin knock-out mice**

Antibody 7697 labels a subpopulation of neurons in the normal brain with high efficiency (Fig. 2a), but does not stain the brain of calretinin knock-out mice (Fig. 2b).

**Uses**

Calretinin belong probably to the class of “trigger” calcium binding-proteins. It occurs mainly in subpopulations of nerve cells and is an excellent markers for mesotheliomas (3,4).

**Working dilutions**

Immunohistochemistry: 1:2'000 - 1:5'000, on paraformaldehyde (4%) or formalin-fixed tissue, cryostate or paraffin-sections.

Immunoblots: 1:1'000 - 1:2'000.

For immunohistochemistry and immunoblots the titer was determined by using the avidin-biotin method. We recommend that the optimal dilutions be determined by titration experiments.

**Storage**

After reconstitution freeze in small aliquots (e.g. 1 µl) and keep at - 80°C (or at least -20°C). For continuous use, keep at 4°C (with 0.01% Na-azide). Avoid repeated freezing and thawing.

**References**


