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Product Description

Rabbit anti Hpcal4
(hippocalcin-like 4)

8181

Straight antiserum

Product: Rabbit anti-Hpcal4 (hippocalcin-like 4)

Code No: 8181

Lot no: 1898

Form: Lyophilized whole serum (no preservatives).

Quantity: 200 µl.

Reconstitution: with 200 µl of bi-distilled water.

Description

The antiserum against hpcal4 is produced in rabbits by immunization with recombinant mouse Hpcal4 containing a 6-his tag at the N-terminal. The antibody was evaluated for specificity and potency: a) by Biotin-Avidin labelling of cryostat-, vibratom- and paraffin-sections of 4% paraformaldehyde fixed brains and b) by immunoblots.

The product is a polyclonal antiserum against Hpcal4 (1), a calcium-binding protein of the sensor EF-hand family related to hippocalcin. This antiserum stains the brain in a characteristic, unique pattern (Fig. 1; see also www.brain-map.org). The antiserum reacts specifically with Hpcal4 in tissue originating from rodents as determined by immunoblots (Fig. 2).

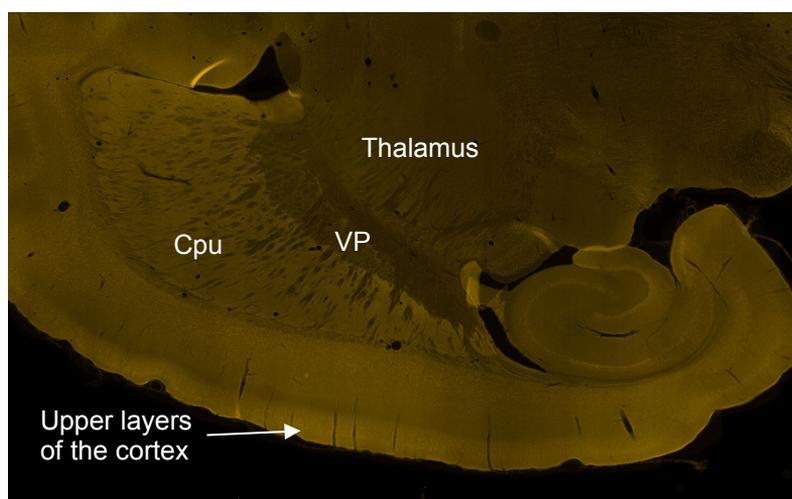
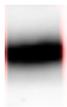


Fig. 1: Nanozoomer scan of a horizontal section through the rat brain incubated with antiserum 1898 against Hpcal4. The upper layers of the cerebral cortex and the caudatoputamen (Cpu) are labelled. Pallidum and thalamus remain unstained.

Immunoblot



Extracts of soluble proteins isolated from whole rat-brain and separated by SDS-PAGE. In the Western blot the antiserum 8181 specifically recognizes a band of 22 kDa (arrow).

Fig. 2 Immunoblot of rat-brain homogenates. The arrows indicate a band at 22 kDa.

Uses

Hpcal4 belongs to the class of the “sensor” calcium binding-proteins. It occurs mainly in the brain, in large subpopulations of nerve cells (see also the Allen brain atlas (<http://www.brain-map.org/>)).

Working dilutions

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

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

For immunohistochemistry and immunoblots the titre 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.