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Product Description

Rabbit anti Na⁺-Ca²⁺-exchanger

Product: Rabbit Na⁺-Ca²⁺ exchanger

Code No.: π 11-13

Lot No.: 28

Form: Lyophilized antiserum (no preservatives).

Quantity: 200 µl.

Reconstitution: with 200 µl bidistilled water.

Description

This antiserum was produced against canine cardiac sarcolemmal Na⁺-Ca²⁺ exchanger (NCX1; full length isolated protein). The specific epitope was never mapped, but is likely to be primarily on the large intracellular loop. Brain, smooth muscle and kidney Na⁺-Ca²⁺ exchanger are also recognized by the antiserum. The antiserum cross reacts with the proteins of mouse, rat, rabbit, frog, toad, guinea pig, cow and human. It does not react with NCX2 or NCX3. The antiserum can be used for immunoblots, immunoprecipitation and immunohistochemistry.

Working dilutions

Immunohistochemistry; 1:5'000 - 1: 10'000 with the avidin-biotin method

Immunoblots: 1:100 – 1: 1'000 (use milk for blocking). Primary bands at 120 kDa (full length protein), 160 kDa (some non-reduced protein even in the presence of DDT) and 70 kDa (active proteolytic fragment).

We recommend that the optimal dilutions be determined by titration experiments.

Storage

For long storage, 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

Philipson K.D. et al. (1988) Purification of the cardiac Na⁺-Ca²⁺ exchanger protein. Biochim. Biophys. Acta 945: 298-306.