Na+/Ca2+ Exchanger 3 (NCX-3) Antibody
Affinity purified polyclonal antibody
Catalog # AG1414

Specification

Na+/Ca2+ Exchanger 3 (NCX-3) Antibody -
Product Information

<table>
<thead>
<tr>
<th>Application</th>
<th>WB, IHC</th>
</tr>
</thead>
<tbody>
<tr>
<td>Primary Accession</td>
<td>P70549</td>
</tr>
<tr>
<td>Reactivity</td>
<td>Human, Mouse, Rat</td>
</tr>
<tr>
<td>Host</td>
<td>Rabbit</td>
</tr>
<tr>
<td>Clonality</td>
<td>Polyclonal</td>
</tr>
<tr>
<td>Calculated MW</td>
<td>103163</td>
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<tr>
<td>Homology</td>
<td>Mouse, human - identical.</td>
</tr>
</tbody>
</table>

Na+/Ca2+ Exchanger 3 (NCX-3) Antibody -
Additional Information

Gene ID
140448

Other Names
Sodium/calcium exchanger 3, Na(+)/Ca(2+)-exchange protein 3, Solute carrier family 8 member 3, Slc8a3, Ncx3

Related products for control experiments
Control peptide antigen (supplied with the antibody free of charge).

Target/Specificity
Peptide (C)PLEGKEVDESRRE, corresponding to amino acid residues 303-315 of rat NCX-3 (Accession P70549). 3rd intracellular loop.

Dilution
WB~~1:200-1:2000
IHC~~1:100

Peptide Confirmation
Confirmed by mass-spectrography and amino acid analysis.

Format
Affinity purified antibody, lyophilized powder

Reconstitution
25 µl, 50 µl or 0.2 ml deionized water, depending on the sample size.

Antibody Concentration After Reconstitution
0.8 mg/ml.

Storage Before Reconstitution
Lyophilized powder can be stored intact at

Western blot analysis of rat brain lysates (lanes 1 and 4), mouse brain lysates (lanes 2 and 5) and human SH-SYSY neuroblastoma cell lysates (lanes 3 and 6):
1-3. Anti-Na+/Ca2+ Exchanger 3 (NCX-3) antibody (#AG1414), (1:200).
4-6. Anti-Na+/Ca2+ Exchanger 3 (NCX-3) antibody, preincubated with the control peptide antigen.

Expression of NCX-3 in rat cerebellum
Immunohistochemical staining of immersion-fixed, free floating rat brain frozen sections using Anti-Na+/Ca2+ Exchanger 3 (NCX-3) antibody (#AG1414), (1:100). A. NCX-3 staining (green) is expressed mostly in molecular layer (Mol) interneurons (arrow). B. The same section, stained with Parvalbumin (Red). C. Merge of A and B demonstrates that NCX-3 appears to be expressed in several GABAergic neurons in the molecular layer of which Parvalbumin positive cells are only one sub-group (see arrow). DAPI counterstain (blue) displays the layout of cerebellar layers.

Ca2+ has proven to be a universal signaling molecule in excitable and non-excitatory cells. However, being that its intracellular concentration is 1000 time lower than the
Storage After Reconstitution
The reconstituted solution can be stored at 4°C for up to 2 weeks. For longer periods, small aliquots should be stored at -20°C or below. Avoid multiple freezing and thawing. The further dilutions should be made using a carrier protein such as BSA (1%). Centrifuge all antibody preparations before use (10000 × g 5 min).

Control Antigen Storage Before Reconstitution
Lyophilized powder can be stored intact at room temperature for several weeks. For longer periods, it should be stored at -20°C.

Control Antigen Reconstitution
100 µl DDW.

Control Antigen Storage After Reconstitution
-20°C.

Preadsorption Control
1 µg peptide per 1 µg antibody.

Formulation
Lyophilized powder. Resuspended antibody contains phosphate buffered saline (PBS), pH 7.4, 1% BSA, 0.05% NaN₃.

Na+/Ca²⁺ Exchanger 3 (NCX-3) Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytometry
- Cell Culture

Na+/Ca²⁺ Exchanger 3 (NCX-3) Antibody - References