

Datasheet for ABIN7232810  
**anti-NALCN antibody (C-Term)**



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## Overview

|                      |                                                                  |
|----------------------|------------------------------------------------------------------|
| Quantity:            | 100 µg                                                           |
| Target:              | NALCN                                                            |
| Binding Specificity: | AA 1659-1738, C-Term                                             |
| Reactivity:          | Rat                                                              |
| Host:                | Mouse                                                            |
| Clonality:           | Monoclonal                                                       |
| Conjugate:           | This NALCN antibody is un-conjugated                             |
| Application:         | Western Blotting (WB), Immunofluorescence (fixed cells) (IF/ICC) |

## Product Details

|                   |                                                                                                            |
|-------------------|------------------------------------------------------------------------------------------------------------|
| Purpose:          | Anti-NALCN Mouse Monoclonal Antibody                                                                       |
| Immunogen:        | Fusion protein corresponding to aa 1659-1738 (cytoplasmic C- terminus) of rat NALCN (accession no.Q6Q760). |
| Clone:            | S185-7                                                                                                     |
| Isotype:          | IgG1                                                                                                       |
| Specificity:      | This antibody recognizes mouse and rat NALCN.                                                              |
| Cross-Reactivity: | Mouse, Rat                                                                                                 |
| Purification:     | Purified by Protein G affinity chromatography.                                                             |

## Target Details

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| Target:           | NALCN                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Alternative Name: | Nalcn ( <a href="#">NALCN Products</a> )                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| Background:       | <p>Sodium leak channel NALCN, Voltage-gated ion channel responsible for the resting Na(+) permeability that controls neuronal excitability. NALCN channel functions as a multi-protein complex, which consists at least of NALCN, NALF1, UNC79 and UNC80. NALCN is the voltage-sensing, pore-forming subunit of the NALCN channel complex. NALCN channel complex is constitutively active and conducts monovalent cations but is blocked by physiological concentrations of extracellular divalent cations (By similarity). In addition to its role in regulating neuronal excitability, is required for normal respiratory rhythm, systemic osmoregulation by controlling the serum sodium concentration and in the regulation of the intestinal pace-making activity in the interstitial cells of Cajal. NALCN channel is also activated by neuropeptides such as neurotensin and substance P (SP) through a SRC family kinases-dependent pathway. In addition, NALCN activity is enhanced/modulated by several GPCRs, such as CHRM3 (By similarity). {UniProtKB:Q8BXR5, UniProtKB:Q8IZF0}, NALCN (sodium leak channel non-selective protein) is a 1,738 amino acid multi-pass membrane protein in the cation-nonselective channel family. NALCN is highly conserved in mammalian species and is widely expressed in the central nervous system. NALCN is a voltage-independent, non-selective cation channel which is permeable to sodium, potassium, and calcium ions. It is responsible for background sodium ion leak conductance in neurons and regulates basal excitability of the nervous system. Three isoforms of NALCN result from alternative splicing events., Cell membrane, Multi-pass membrane protein, Four domain-type voltage-gated ion channel <math>\alpha</math>-1 subunit, Rb21-channel, Sodium leak channel non-selective protein, Voltage gated channel-like protein 1</p> |
| NCBI Accession:   | <a href="#">NP_705894</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| UniProt:          | <a href="#">Q6Q760</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |

## Application Details

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| Application Notes: | <p>Immunoblotting: use at 1 <math>\mu</math>g/mL. Predicted molecular weight is ~200 kDa.</p> <p>Positive control: rat brain lysate.</p> <p>These are recommended concentrations.</p> <p>Endusers should determine optimal concentrations for their applications.</p> |
| Restrictions:      | For Research Use only                                                                                                                                                                                                                                                 |

## Handling

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|--------------------|------------------------------------------------------------------------------------------------------------------------|
| Format:            | Liquid                                                                                                                 |
| Reconstitution:    | Dilute in PBS or medium which is identical to that used in the assay system.                                           |
| Concentration:     | 1.0 mg/mL                                                                                                              |
| Buffer:            | PBS, pH 7.4, 50 % glycerol, 0.09 % sodium azide                                                                        |
| Preservative:      | Sodium azide                                                                                                           |
| Precaution of Use: | This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only. |
| Storage:           | -20 °C                                                                                                                 |
| Storage Comment:   | This antibody is stable for at least one (1) year at -20°C.                                                            |