abcam

Product datasheet

# Anti-NIPA1 antibody ab121744

2 Images

## Overview

| | |
|---|---|
| **Product name** | Anti-NIPA1 antibody |
| **Description** | Rabbit polyclonal to NIPA1 |
| **Host species** | Rabbit |
| **Tested applications** | **Suitable for:** ICC/IF, IHC-P |
| **Species reactivity** | **Reacts with:** Human |
| **Immunogen** | Recombinant Protein Epitope Signature Tag, corresponding to amino acids 183-226 (HGPTNIMVYI SICSLLGSFT VPSTKGIGLA AQDILHNNPS SQRA) of Human NIPA1.<br>Run BLAST with ExPASy Run BLAST with NCBI |
| **Positive control** | Human urinary bladder tissue. |
| **General notes** | The Life Science industry has been in the grips of a reproducibility crisis for a number of years. Abcam is leading the way in addressing this with our range of recombinant monoclonal antibodies and knockout edited cell lines for gold-standard validation. Please check that this product meets your needs before purchasing.<br>If you have any questions, special requirements or concerns, please send us an inquiry and/or contact our Support team ahead of purchase. Recommended alternatives for this product can be found below, along with publications, customer reviews and Q&As |

## Properties

| | |
|---|---|
| **Form** | Liquid |
| **Storage instructions** | Shipped at 4°C. Upon delivery aliquot and store at -20°C. Avoid freeze / thaw cycles. |
| **Storage buffer** | pH: 7.20<br>Preservative: 0.02% Sodium azide<br>Constituents: 40% Glycerol (glycerin, glycerine), 59% PBS |
| **Purity** | Immunogen affinity purified |
| **Clonality** | Polyclonal |
| **Isotype** | IgG |

## Applications

**The Abpromise guarantee** Our **Abpromise guarantee** covers the use of ab121744 in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

| Application | Abreviews | Notes |
|---|---|---|
| **ICC/IF** | | Use a concentration of 1 - 4 µg/ml.<br>Recommend PFA Fixation and Triton X-100 treatment |
| **IHC-P** | | 1/20 - 1/50. Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol. |

## Target

**Function** Acts as a Mg(2+) transporter. Can also transport other divalent cations such as Fe(2+), Sr(2+), Ba(2+), Mn(2+) and Co(2+) but to a much less extent than Mg(2+).

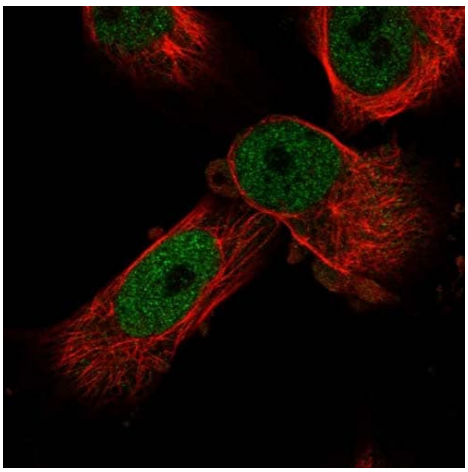
**Tissue specificity** Widely expressed with highest levels in neuronal tissues.

**Involvement in disease** Defects in NIPA1 are the cause of spastic paraplegia autosomal dominant type 6 (SPG6) [MIM:600363]. Spastic paraplegia is a degenerative spinal cord disorder characterized by a slow, gradual, progressive weakness and spasticity of the lower limbs.

**Sequence similarities** Belongs to the NIPA family.

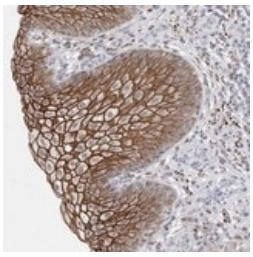
**Cellular localization** Cell membrane. Early endosome. Recruited to the cell membrane in response to low extracellular magnesium.

## Images



Immunocytochemistry/ Immunofluorescence - Anti-NIPA1 antibody (ab121744)

Immunofluorescent staining of Human cell line U-251MG shows positivity in nuclei but not nucleoli. Recommended concentration of ab121744 1-4 µg/ml. Cells treated with PFA/Triton X-100.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-NIPA1 antibody (ab121744)

ab121744, at a 1/10 dilution, staining NIPA1 in paraffin-embedded Human urinary bladder tissue by Immunohistochemistry.

**Please note:** All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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