

### Anti-NCAM1 antibody [123C3] ab9272

★★★★ 4 Abreviews 23 References 6 Images

#### Overview

<b>Product name</b>	Anti-NCAM1 antibody [123C3]
<b>Description</b>	Mouse monoclonal [123C3] to NCAM1
<b>Host species</b>	Mouse
<b>Specificity</b>	This antibody stains neural cell adhesion molecule (NCAM) which is present in small cell lung cancer and lung carcinoids. It also reacts with a number of non-small cell lung carcinomas and neuroendocrine and neuronal derived tissues. In addition, it is internalized after binding to its antigen on SCLC cell lines, making it an excellent reagent for tumor imaging in xenograft models. ab9272 reacts with all three isoforms of NCAM.
<b>Tested applications</b>	<b>Suitable for:</b> IHC-FrFI, IHC-Fr, Flow Cyt, ICC/IF
<b>Species reactivity</b>	<b>Reacts with:</b> Rat, Human, Zebrafish
<b>Immunogen</b>	Tissue, cells or virus corresponding to Human NCAM1. This antibody was raised against a small cell lung carcinoma specimen.
<b>Epitope</b>	This antibody recognizes an epitope in the NCAM exons 11-13 which is dependent on an intact conformation of the first fibronectin type-III homologous domain encoded by these exons.
<b>General notes</b>	<p>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.</p> <p>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&amp;As</p>

#### Properties

<b>Form</b>	Liquid
<b>Storage instructions</b>	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C or -80°C. Avoid freeze / thaw cycle.
<b>Storage buffer</b>	<p>pH: 7.3</p> <p>Preservative: 0.02% Sodium azide</p> <p>Constituents: PBS, 0.1% BSA</p>
<b>Purity</b>	Protein G purified

Clonality	Monoclonal
Clone number	123C3
Myeloma	unknown
Isotype	IgG1

## Applications

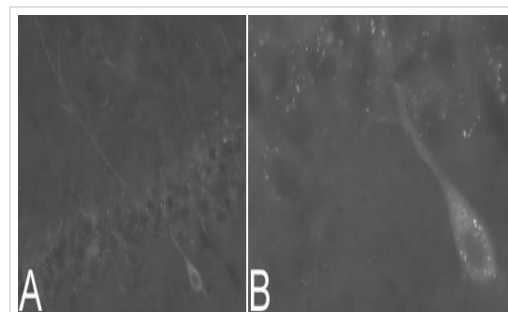
**The Abpromise guarantee** Our **Abpromise guarantee** covers the use of ab9272 in the following tested applications. The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
IHC-FrFI		Use at an assay dependent concentration.
IHC-Fr	★☆☆☆☆ (1)	1/500 - 1/1000.
Flow Cyt		Use 1µg for 10 <sup>6</sup> cells. <b>ab170190</b> - Mouse monoclonal IgG1, is suitable for use as an isotype control with this antibody.
ICC/IF		1/1000.

## Target

Function	This protein is a cell adhesion molecule involved in neuron-neuron adhesion, neurite fasciculation, outgrowth of neurites, etc.
Sequence similarities	Contains 2 fibronectin type-III domains. Contains 5 Ig-like C2-type (immunoglobulin-like) domains.
Cellular localization	Secreted and Cell membrane.

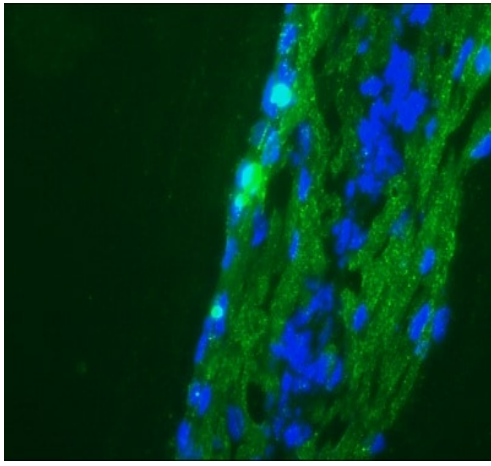
## Images



Immunohistochemistry - Free Floating - Anti-NCAM1 antibody [123C3] (ab9272)

ab9272 at a dilution of 1/1000, staining NCAM (Alexa 488 secondary at 1/2000) on rat brain tissue (30µm thick coronal sections) in free floating IHC (see protocol link for detailed description). Images showing hippocampal neuron body and processes: [A] 20x objective and [B] punctate cytoplasmic staining; 40x objective. No labeling observed following omission of primary antibody.

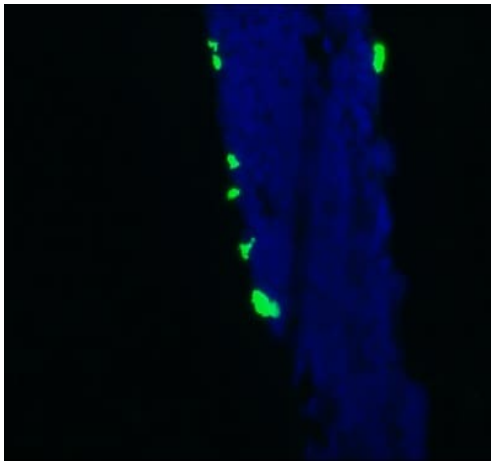
Sections were viewed using an Axioplan 2 Imaging microscope (Imaging Associates) fitted with 10x, 20x and 40x Plan-Neofluorobjectives (Zeiss, Germany) and images were taken using a AxioCam Hrm digital camera (Zeiss, Germany) and AxioVision software (Imaging Associates).



Immunohistochemistry (Frozen sections) - Anti-NCAM1 antibody [123C3] (ab9272)

Immunofluorescence staining images of 9 day old zebrafish embryos.

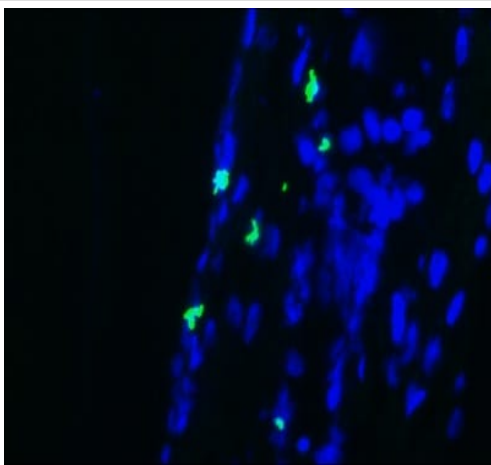
ab9272 reacts with developing neuronal tissue (strong) and muscle. Frozen sample treated with Acetone:Methanol 1:1, antibody diluted 1/100 and incubated for 45 minutes at room temperature.



Immunohistochemistry (Frozen sections) - Anti-NCAM1 antibody [123C3] (ab9272)

Immunofluorescence staining images of 9 day old zebrafish embryos.

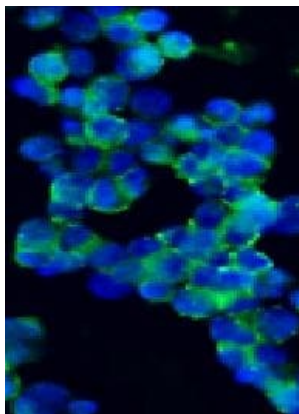
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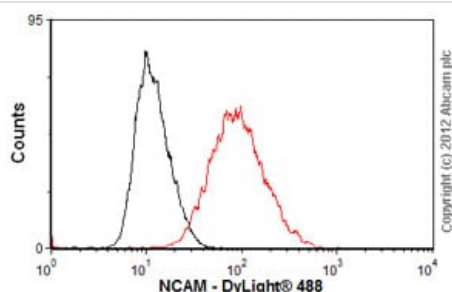
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Immunocytochemistry/ Immunofluorescence - Anti-NCAM1 antibody [123C3] (ab9272)

Immunostaining of the neural cell adhesion molecule (NCAM) in small cell human lung cancer cell line NCI-H82.



Flow Cytometry - Anti-NCAM1 antibody [123C3] (ab9272)

Overlay histogram showing SH-SY5Y cells stained with ab9272 (red line). The cells were fixed with 4% paraformaldehyde (10 min) and then permeabilized with 0.1% PBS-Tween for 20 min. The cells were then incubated in 1x PBS / 10% normal goat serum / 0.3M glycine to block non-specific protein-protein interactions followed by the antibody (ab9272, 1µg/1x10<sup>6</sup> cells) for 30 min at 22°C. The secondary antibody used was DyLight® 488 goat anti-mouse IgG (H+L) ([ab96879](#)) at 1/500 dilution for 30 min at 22°C. Isotype control antibody (black line) was mouse IgG1 [ICIGG1] ([ab91353](#), 2µg/1x10<sup>6</sup> cells) used under the same conditions. Acquisition of >5,000 events was performed. This antibody gave a positive signal in SH-SY5Y cells fixed with 80% methanol (5 min)/permeabilized with 0.1% PBS-Tween for 20 min used under the same conditions.

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