

## Product datasheet

# Anti-NCAM1 antibody [EP2567Y] ab75813

Recombinant RabMAb

★★★★☆ **6 Abreviews** **35 References** [7 Images](#)

### Overview

<b>Product name</b>	Anti-NCAM1 antibody [EP2567Y]
<b>Description</b>	Rabbit monoclonal [EP2567Y] to NCAM1
<b>Host species</b>	Rabbit
<b>Tested applications</b>	<b>Suitable for:</b> Flow Cyt (Intra), WB, IP, ICC/IF, IHC-P
<b>Species reactivity</b>	<b>Reacts with:</b> Human
<b>Immunogen</b>	Synthetic peptide. This information is proprietary to Abcam and/or its suppliers.
<b>Positive control</b>	WB: SH-SY5Y cell lysate. ICC/IF: SH-SY5Y cells. Flow Cyt (intra): SH-SY5Y cells. IP: SH-SY5Y IHC-P: Human cerebrum.
<b>General notes</b>	<p>This product is a recombinant monoclonal antibody, which offers several advantages including:</p> <ul style="list-style-type: none"><li>- High batch-to-batch consistency and reproducibility</li><li>- Improved sensitivity and specificity</li><li>- Long-term security of supply</li><li>- Animal-free production</li></ul> <p>For more information <a href="#">see here</a>.</p> <p>Our RabMAb<sup>®</sup> technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to <a href="#">RabMAb<sup>®</sup> patents</a>.</p> <p>Mouse, Rat: We have preliminary internal testing data to indicate this antibody may not react with these species. Please contact us for more information.</p>

### Properties

<b>Form</b>	Liquid
<b>Storage instructions</b>	Shipped at 4°C. Store at -20°C. Stable for 12 months at -20°C.
<b>Storage buffer</b>	pH: 7.20 Preservative: 0.01% Sodium azide Constituents: 59% PBS, 40% Glycerol (glycerin, glycerine), 0.05% BSA
<b>Purity</b>	Protein A purified
<b>Clonality</b>	Monoclonal
<b>Clone number</b>	EP2567Y

Isotype

IgG

## Applications

### The Abpromise guarantee

Our **Abpromise guarantee** covers the use of ab75813 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
Flow Cyt (Intra)		1/50. <b>ab172730</b> - Rabbit monoclonal IgG, is suitable for use as an isotype control with this antibody. For unpurified use at 1:1000 dilution.
WB		1/50000 - 1/100000. Detects a band of approximately 180 kDa (predicted molecular weight: 93 kDa).
IP		1/20. For unpurified use at 1:100 dilution
ICC/IF		1/50. For unpurified use at 1:100 - 1:250 dilution range
IHC-P	★★★★★ (5)	1/10000. Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol.

## Target

### Function

This protein is a cell adhesion molecule involved in neuron-neuron adhesion, neurite fasciculation, outgrowth of neurites, etc.

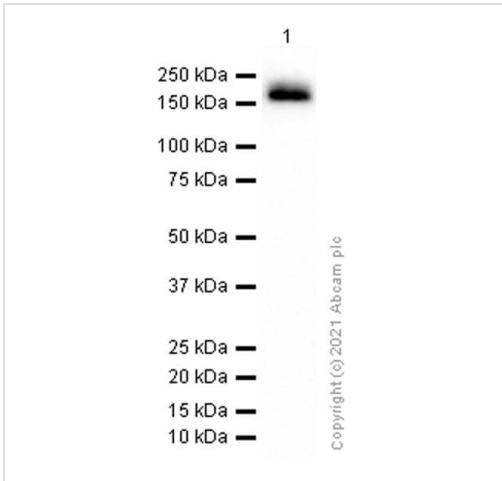
### Sequence similarities

Contains 2 fibronectin type-III domains.  
Contains 5 Ig-like C2-type (immunoglobulin-like) domains.

### Cellular localization

Secreted and Cell membrane.

## Images



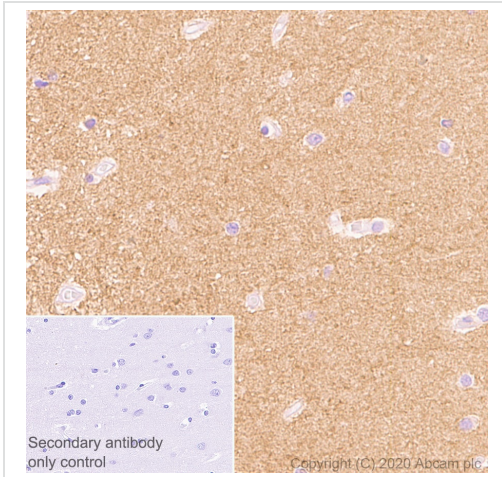
Western blot - Anti-NCAM1 antibody [EP2567Y] (ab75813)

Anti-NCAM1 antibody [EP2567Y] (ab75813) at 1/10000 dilution (Purified) + SH-SY5Y (Human neuroblastoma epithelial cell) whole cell lysate

### Secondary

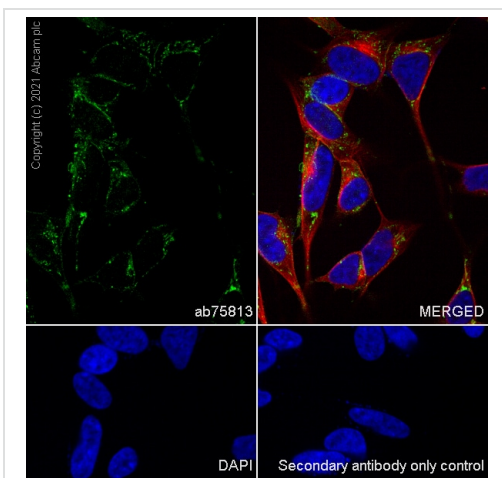
Goat Anti-Rabbit IgG H&L (HRP) ([ab97051](#)) at 1/20000 dilution

**Predicted band size:** 93 kDa



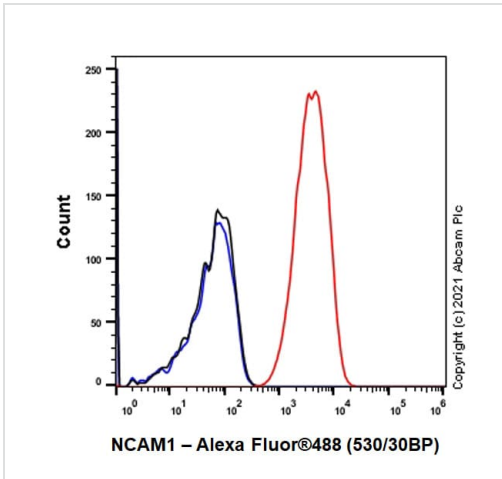
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-NCAM1 antibody [EP2567Y] (ab75813)

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) analysis of human cerebrum tissue sections labeling NCAM1 with Purified ab75813 at 1/10000 dilution (0.02 µg/ml). Heat mediated antigen retrieval was performed using Heat mediated antigen retrieval using Bond™ Epitope Retrieval Solution 2 (pH 9.0) . Tissue was counterstained with Hematoxylin. Followed by a ready to use Rabbit specific IHC polymer detection kit HRP/DAB ([ab209101](#)) secondary antibody. PBS instead of the primary antibody was used as the negative control.



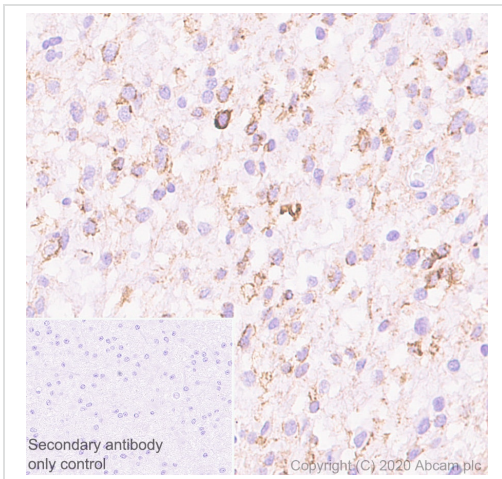
Immunocytochemistry/ Immunofluorescence - Anti-NCAM1 antibody [EP2567Y] (ab75813)

Immunocytochemistry analysis of SH-SY5Y (Human neuroblastoma epithelial cell) cells labeling NCAM1 with Purified ab75813 at 1:50 dilution (3.1 µg/ml). Cells were fixed in 4% Paraformaldehyde and permeabilized with 0.1% tritonX-100. Cells were counterstained with Ab195889 Anti-alpha Tubulin antibody [DM1A] - Microtubule Marker (Alexa Fluor® 594) 1:200 (2.5 µg/ml). Goat anti rabbit IgG (Alexa Fluor® 488, [ab150077](#)) was used as the secondary antibody at 1:1000 (2 µg/ml) dilution. DAPI (blue) was used as nuclear counterstain. PBS instead of the primary antibody was used as the secondary antibody only control.



Flow Cytometry (Intracellular) - Anti-NCAM1 antibody [EP2567Y] (ab75813)

Flow Cytometry analysis of SH-SY5Y (Human neuroblastoma epithelial cell) cells labelling NCAM1 with Purified ab75813 at 1:20 dilution (10 µg/ml) (Red). Cells were fixed with 4% Paraformaldehyde and permeabilised with 90% Methanol. A Goat anti rabbit IgG (Alexa Fluor® 488, **ab150081**) secondary antibody was used at 1:2000. Isotype control - Rabbit monoclonal IgG (Black). Unlabelled control - Cell without incubation with primary antibody and secondary antibody (Blue).



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-NCAM1 antibody [EP2567Y] (ab75813)

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) analysis of human astrocytoma tissue sections labeling NCAM1 with Purified ab75813 at 1:10000 dilution (0.0156 µg/ml). Heat mediated antigen retrieval was performed using Heat mediated antigen retrieval using Bond™ Epitope Retrieval Solution 2 (pH 9.0) . Tissue was counterstained with Hematoxylin. Rabbit specific IHC polymer detection kit HRP/DAB (**ab209101**) secondary antibody was used at 1:0 dilution. PBS instead of the primary antibody was used as the negative control.



Immunoprecipitation - Anti-NCAM1 antibody  
[EP2567Y] (ab75813)

NCAM1 was immunoprecipitated from 0.35 mg SH-SY5Y (Human neuroblastoma epithelial cell) whole cell lysate 10 µg with ab75813 at 1/50 dilution (2µg). VeriBlot for IP Detection Reagent (HRP) ([ab131366](#)) was used at 1/5000 dilution.

**Lane 1:** SH-SY5Y (Human neuroblastoma epithelial cell) whole cell lysate 10 µg

**Lane 2:** ab75813 IP in SH-SY5Y whole cell lysate

**Lane 3:** Rabbit monoclonal IgG ([ab172730](#)) instead of ab75813 in SH-SY5Y whole cell lysate

Blocking and dilution buffer and concentration: 5% NFDN/TBST.

### Why choose a recombinant antibody?



**Research with confidence**  
Consistent and reproducible results



**Long-term and scalable supply**  
Recombinant technology



**Success from the first experiment**  
Confirmed specificity



**Ethical standards compliant**  
Animal-free production

Anti-NCAM1 antibody [EP2567Y] (ab75813)

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

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- Extensive multi-media technical resources to help you
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