

Product datasheet

Anti-NCAM1 antibody [EP2567Y] ab75813

Recombinant RabMAb

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

Overview

| | |
|----------------------------|---|
| Product name | Anti-NCAM1 antibody [EP2567Y] |
| Description | Rabbit monoclonal [EP2567Y] to NCAM1 |
| Host species | Rabbit |
| Tested applications | Suitable for: Flow Cyt (Intra), WB, IP, ICC/IF, IHC-P |
| Species reactivity | Reacts with: Human |
| Immunogen | Synthetic peptide. This information is proprietary to Abcam and/or its suppliers. |
| Positive control | WB: SH-SY5Y cell lysate. ICC/IF: SH-SY5Y cells. Flow Cyt (intra): SH-SY5Y cells. IP: SH-SY5Y IHC-P: Human cerebrum. |
| General notes | <p>This product is a recombinant monoclonal antibody, which offers several advantages including:</p> <ul style="list-style-type: none">- High batch-to-batch consistency and reproducibility- Improved sensitivity and specificity- Long-term security of supply- Animal-free production <p>For more information see here.</p> <p>Our RabMAb[®] technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to RabMAb[®] patents.</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

| | |
|-----------------------------|--|
| Form | Liquid |
| Storage instructions | Shipped at 4°C. Store at -20°C. Stable for 12 months at -20°C. |
| Storage buffer | pH: 7.20 Preservative: 0.01% Sodium azide Constituents: 59% PBS, 40% Glycerol (glycerin, glycerine), 0.05% BSA |
| Purity | Protein A purified |
| Clonality | Monoclonal |
| Clone number | 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. ab172730 - 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.

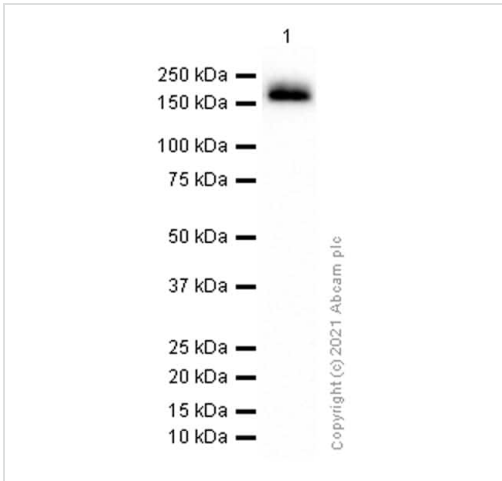
Sequence similarities

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

Cellular localization

Secreted and Cell membrane.

Images



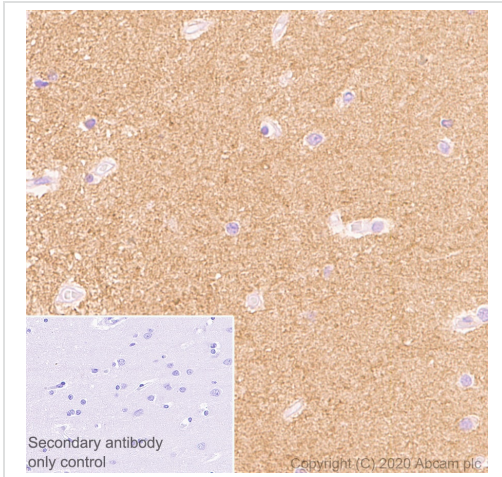
Western blot - Anti-NCAM1 antibody [EP2567Y] (ab75813)

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

Secondary

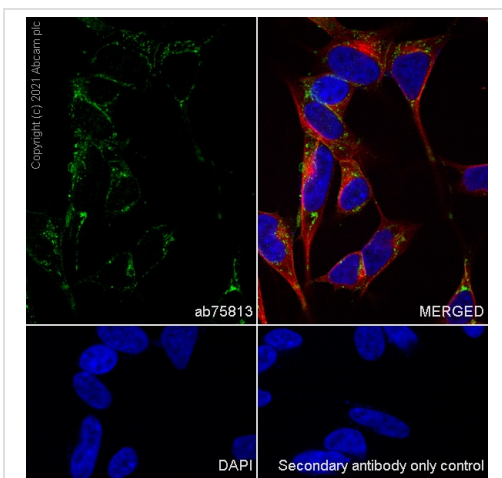
Goat Anti-Rabbit IgG H&L (HRP) ([ab97051](#)) at 1/20000 dilution

Predicted band size: 93 kDa



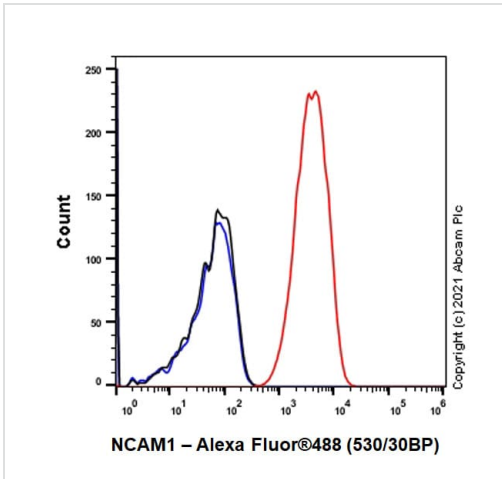
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-NCAM1 antibody [EP2567Y] (ab75813)

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.



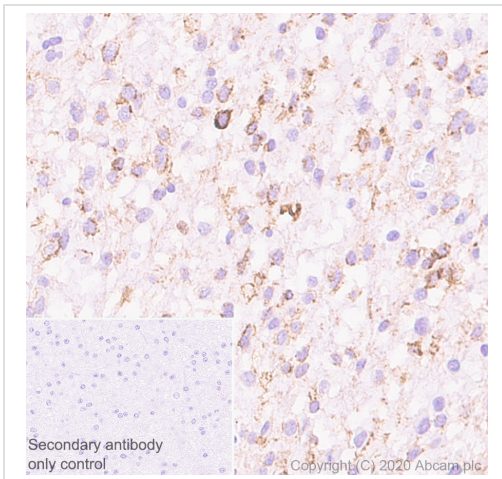
Immunocytochemistry/ Immunofluorescence - Anti-NCAM1 antibody [EP2567Y] (ab75813)

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.



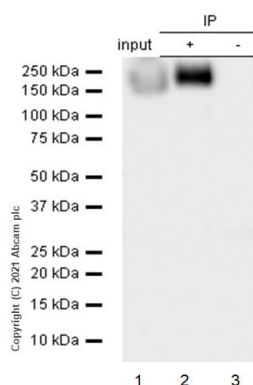
Flow Cytometry (Intracellular) - Anti-NCAM1 antibody [EP2567Y] (ab75813)

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% NFD/MTBST.

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"

Our Abpromise to you: Quality guaranteed and expert technical support

- Replacement or refund for products not performing as stated on the datasheet
- Valid for 12 months from date of delivery
- Response to your inquiry within 24 hours
- We provide support in Chinese, English, French, German, Japanese and Spanish
- Extensive multi-media technical resources to help you
- We investigate all quality concerns to ensure our products perform to the highest standards

If the product does not perform as described on this datasheet, we will offer a refund or replacement. For full details of the Abpromise, please visit <https://www.abcam.com/abpromise> or contact our technical team.

Terms and conditions

- Guarantee only valid for products bought direct from Abcam or one of our authorized distributors