

## ABfinity™ NCAM Recombinant Rabbit Monoclonal Antibody

Store at 2°C to 8°C (short-term), or -20°C (long-term)

Catalog Number: 701379

Pub. No. MAN0007434 Rev. 1.00

<b>Clonality:</b>	Monoclonal	<b>Quantity:</b>	100 µg	<b>Volume:</b>	200 µL	<b>Concentration:</b>	0.5 mg/mL
<b>Host/Class:</b>	Rabbit IgG	<b>Reactivity:</b>	Human NCAM	<b>Predicted Reactivity:</b>	Human		

### Product Description

The neural cell adhesion molecule (NCAM) is a member of the Ig superfamily, and is involved in mediating homophilic binding. A number of different isoforms of NCAM exist. The isoforms are differentially expressed depending upon tissue type, and stage of development. In addition to playing a role in cell-cell adhesion, NCAM is also involved in development, neurite outgrowth, synaptic plasticity, learning, and memory.

### Product Specifications

<b>Immunogen:</b>	Recombinant protein corresponding to amino acids 20–170 of human NCAM
<b>Alternate Names:</b>	NCAM, CD56
<b>Apparent MW:</b>	~94 , ~140 kDa
<b>Gene ID:</b>	4684
<b>Protein Accession No.:</b>	P13591
<b>Sequence Identity:</b>	Human
<b>Sequence Homology:</b>	Chimpanzee, Gorilla, Monkey, Cat, Dog, Rabbbit, Bovine
<b>Clone/PAD:</b>	3H15L12
<b>Lot:</b>	See product label

### Product Applications

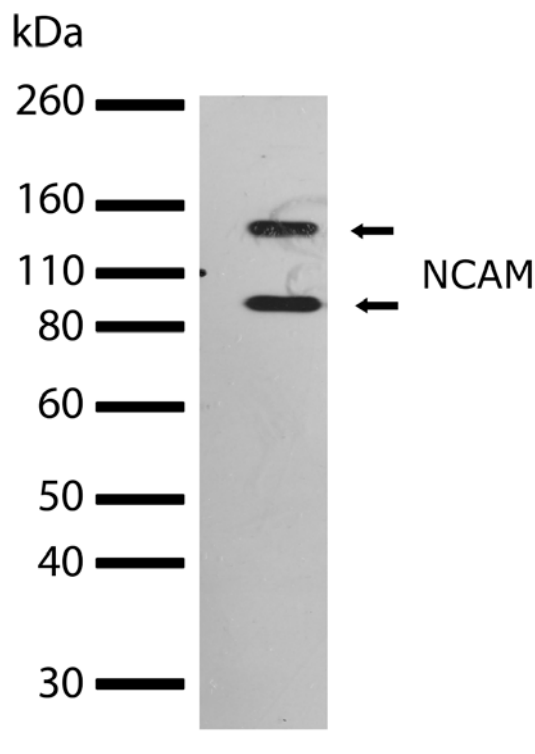
Application	Species	Test Material	Concentration
Western blotting	Rat	Brain	2–3 µg/ mL
Immunocytochemistry	Human	U2OS cells	1 µg/mL
Indirect ELISA	Human	Peptide	1.5 × 10 <sup>-4</sup> to 3 µg/mL
Flow cytometry	Human	K562 cells	1 × 10 <sup>-6</sup> cells to 1 µg/mL

### Storage and Handling

Store the antibody at 2°C to 8°C for up to 1 month, -20°C for long storage. Avoid repeated freezing and thawing.

### Stability

When stored as instructed, expires one year from date of receipt unless otherwise indicated on product label.



**Figure 1** Western blot analysis of ABfinity™ NCAM Recombinant Rabbit Monoclonal Antibody (Cat. no. 701379). Western blot analysis was performed on whole tissue extracts from rat brain. Endogenous levels of NCAM was detected at ~94 kDa, and 140 kDa using ABfinity™ NCAM Recombinant Rabbit Monoclonal Antibody at a concentration of 2 µg/mL. The blot was developed using chemiluminescence (ECL) method.

### Storage Buffer

Phosphate buffered saline (PBS) with 0.09% sodium azide.



**CAUTION!** Sodium azide is extremely toxic and may react with lead and copper plumbing to form highly explosive metal azides. Properly dispose of solutions containing sodium azide. Read the Safety Data Sheets (SDSs) and follow the handling instructions. Wear appropriate protective eyewear, clothing, and gloves. SDSs are available at [www.lifetechnologies.com/support](http://www.lifetechnologies.com/support).

For research use only. Not for use in diagnostic procedures.

Manufacturing Site • 7335 Executive Way • Frederick • MD 21704 • E-mail: techsupport@lifetech.com

## Product Documentation

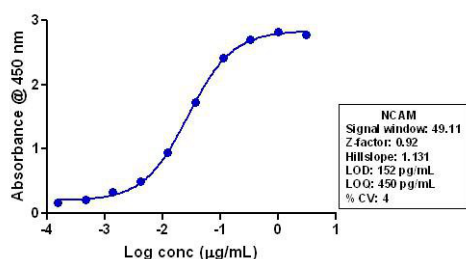
To obtain a Certificate of Analysis or SDS, visit [www.lifetechnologies.com/support](http://www.lifetechnologies.com/support).

## Related Products

Product Name	Quantity	Catalog No.
iBlot® Dry Blotting System	1 unit	IB1001
WesternBreeze® Chromogenic Kit Anti-Rabbit	1 kit	WB7105
WesternBreeze® Chemiluminescent Kit, Anti-Rabbit	1 kit	WB7106

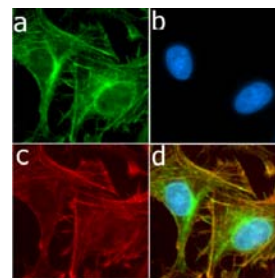
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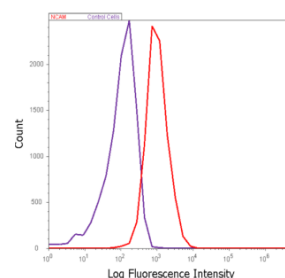
**Figure 2** Indirect ELISA of ABfinity™ NCAM Recombinant Rabbit Monoclonal Antibody (Cat. no. 701379).

Indirect ELISA was performed using various dilutions of ABfinity™ NCAM Recombinant Rabbit Monoclonal Antibody to detect NCAM peptide coated onto the plate. A non-linear regression analysis was performed (4 PL), LOD and LOQ for the antibody was determined.



**Figure 3** Immunocytochemistry analysis of ABfinity™ NCAM Recombinant Rabbit Monoclonal Antibody (Cat. no. 701379).

Immunocytochemistry analysis of U2OS cells stained with ABfinity™ NCAM Recombinant Rabbit Monoclonal Antibody, using **a**: Alexa Fluor® 488 goat anti-rabbit as a secondary antibody (green). **b**: DAPI stained U2OS nuclei (blue). **c**: Actin stained with Alexa Fluor® 594 phalloidin (red). **d**: Composite image of cells showing cytoplasmic localization of NCAM.



**Figure 4** Flow cytometry analysis of K562 cells labelled with ABfinity™ NCAM Recombinant Rabbit Monoclonal Antibody (Cat. no. 701379).

Fixed and permeabilized K562 cells were labeled with ABfinity™ NCAM Recombinant Rabbit Monoclonal Antibody, followed by Alexa Fluor® 488 goat anti-rabbit staining (right peak). To confirm specificity, the cells were labeled with an isotype control and stained using Alexa Fluor® 488 goat anti-rabbit IgG (left peak).

## Explanation of symbols

Symbol	Description	Symbol	Description	Symbol	Description
	Manufacturer		Catalog number		Batch code
	Use by		Temperature limitation		
	Consult instructions for use		Caution, consult accompanying documents		

## Limited Use Label License No. 327: Recombinant Antibody Technology

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