

ABfinity™ NCAM Recombinant Rabbit Oligoclonal Antibody

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

Catalog Number: 710388

Pub. No. MAN0007438 **Rev.** 1.00

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

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

Product Applications

Application	Species	Test Material	Concentration
Western blotting	Rat	Brain	2–3 µg/ mL
Indirect ELISA	Human	Recombinant protein	1.5 × 10 ⁻⁴ to 3 µg/mL
Immunocytochemistry	Human	U2OS cells	1 µg/mL
Flow cytometry	Human	K562 cells	1 × 10 ⁻⁶ 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.

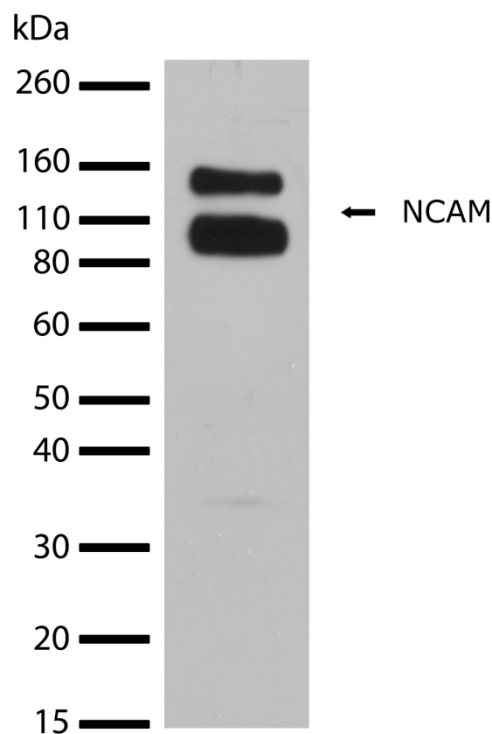


Figure 1 Western blot analysis of ABfinity™ NCAM Recombinant Rabbit Oligoclonal Antibody (Cat. no. 710388). Western blot analysis was performed on whole tissue extracts from rat brain. Endogenous levels of NCAM was detected at ~94 kDa, and 140 kDa using ABfinity™ NCAM Recombinant Rabbit Oligoclonal Antibody at concentration of 2 µg/mL. The blot was developed using enhanced 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.

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.

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

Limited Product Warranty

Life Technologies Corporation and/or its affiliate(s) warrant their products as set forth in the Life Technologies' General Terms and Conditions of Sale found on Life Technologies' website at www.lifetechnologies.com/termsandconditions. If you have any questions, please contact Life Technologies at www.lifetechnologies.com/support.

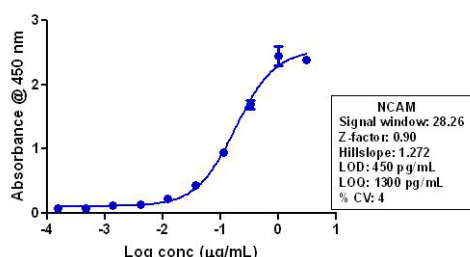


Figure 2 Indirect ELISA of ABfinity™ NCAM Recombinant Rabbit Oligoclonal Antibody (Cat. no. 710388).

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

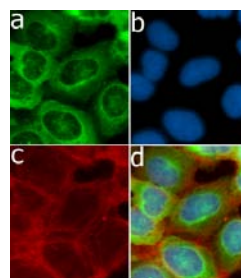


Figure 3 Immunocytochemistry analysis of ABfinity™ NCAM Recombinant Rabbit Oligoclonal Antibody (Cat. no. 710388).

Immunocytochemistry analysis of U2OS cells stained with ABfinity™ NCAM Recombinant Rabbit Oligoclonal 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.

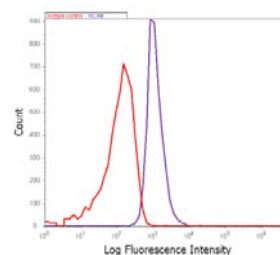


Figure 4 Flow cytometry analysis of K562 cells labelled with ABfinity™ NCAM Recombinant Rabbit Oligoclonal Antibody (Cat. no. 710388).

Fixed and permeabilized K562 cells were labeled with ABfinity™ NCAM Recombinant Rabbit Oligoclonal 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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