

Datasheet for ABIN7043351

anti-CD56 antibody (Extracellular) (Atto 488)



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1 Image

Overview

Quantity:	50 µL
Target:	CD56 (NCAM1)
Binding Specificity:	AA 261-276, Extracellular
Reactivity:	Rat
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This CD56 antibody is conjugated to Atto 488
Application:	Immunohistochemistry (IHC)

Product Details

Purpose:	A Rabbit Polyclonal Antibody to CD56/NCAM1
Immunogen:	Immunogen: Synthetic peptide Immunogen Sequence: (C)DEKHIFSDDSSSELTIR, corresponding to amino acid residues 261-276 of rat CD56 (NCAM1)
Isotype:	IgG
Specificity:	Extracellular, N-terminus
Cross-Reactivity:	Human, Mouse, Rat
Predicted Reactivity:	Mouse - identical, human - 13,15 amino acids residues identical
Characteristics:	Anti-CD56/NCAM1 (extracellular) Antibody (ABIN7043350, ABIN7044686 and ABIN7044687) is a highly specific antibody directed against an epitope of the rat protein. The antibody can be

Product Details

used in western blot, live cell imaging, and immunohistochemistry applications. It has been designed to recognize CD56 from rat, mouse and human samples. \nAnti-CD56/NCAM1 (extracellular)-ATTO Fluor-488 Antibody (ABIN7043351) is directly labeled with an fluorescent dye. ATTO dyes are characterized by strong absorption (high extinction coefficient), high fluorescence quantum yield, and high photo-stability. The label is analogous to fluorescein isothiocyanate (FITC) and can be used with filters typically used to detect FITC. Anti-CD56/NCAM1 (extracellular)-ATTO Fluor-488 Antibody is suited for experiments requiring simultaneous labeling of different markers.

Purification: Affinity purified on immobilized antigen.

Target Details

Target: CD56 (NCAM1)

Alternative Name: NCAM1 ([NCAM1 Products](#))

Background: NCAM-1, CD56, Neural cell adhesion molecule 1 (NCAM-1) is a member of a large family of cell-surface glycoproteins and plays a major role during development and controls various functions in the nervous system such as cell migration, neurite growth, axonal guidance, and synaptic plasticity¹. NCAM-1 mediates adhesion between cells through homophilic bonds formed between its extracellular domains, which comprise five tandem Ig domains and two juxtamembrane fibronectin type III (Fn III) domains². There are three major protein isoforms of NCAM-1: 180 kd, 140 kd, and 120 kd. The 180-kd and 140-kd isoforms of NCAM-1 are transmembrane proteins, whereas the 120-kd isoform is linked to the plasma membrane via a glycosyl phosphatidyl-inositol (GPI) lipid anchor³. NCAM-1 is widely expressed in the central nervous system, skeletal muscle and natural killer cells⁴. Several lines of evidence have supported the idea that dysregulation of NCAM-1 isoforms in the brain might be involved in the pathophysiology of neuropsychiatric disorders, particularly bipolar affective disorder⁵.

Alternative names: NCAM-1, CD56

Gene ID: 24586

NCBI Accession: [NM_000615](#)

UniProt: [P13596](#)

Application Details

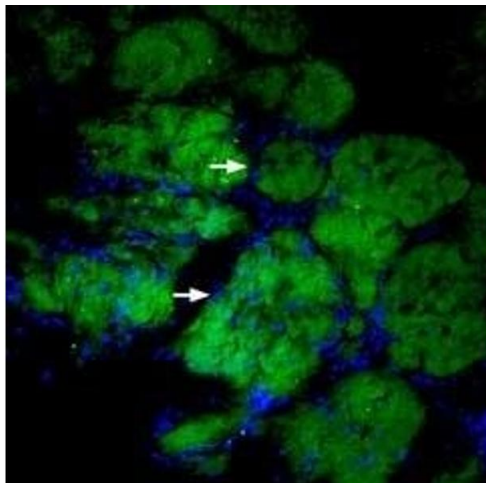
Application Notes: Antigen preadsorption control: 1 µg peptide per 1 µg antibody

Application Details

	Application Dilutions Immunohistochemistry paraffin embedded sections ihc: N/A Application Dilutions Western blot wb: N/A
Comment:	Negative Control: (ABIN7582041) Blocking Peptide: (ABIN7236018)
Restrictions:	For Research Use only

Handling

Format:	Lyophilized
Reconstitution:	Reconstitute with double distilled water (DDW) to a concentration of 1.0 mg/mL.
Concentration:	1 mg/mL
Buffer:	PBS pH 7.4, 1 % BSA with 0.05 % sodium azide
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	4 °C, -20 °C
Storage Comment:	Storage before reconstitution: The antibody ships as a lyophilized powder at room temperature. Upon arrival, it should be stored at -20°C. Storage after reconstitution: The reconstituted solution can be stored at 4°C, protected from the light, for up to 1 week. For longer periods, small aliquots should be stored at -20°C. Avoid multiple freezing and thawing. Centrifuge all antibody preparations before use (10000 x g 5 min).



Immunohistochemistry

Image 1. Expression of CD56 in rat brain - Immunohistochemical staining of rat olfactory bulb free-floating frozen sections using Anti-CD56/NCAM1 (extracellular)-ATTO Fluor-488 Antibody (ABIN7043351), (1:60). CD56 immunoreactivity (green) appears in glomerular structures (arrows). Nuclei are demonstrated using DAPI as the counterstain (blue).