

Datasheet for ABIN7043350

anti-CD56 antibody (Extracellular)





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Characteristics:

Quantity:	25 μL	
Target:	CD56 (NCAM1)	
Binding Specificity:	AA 261-276, Extracellular	
Reactivity:	Rat	
Host:	Rabbit	
Clonality:	Polyclonal	
Conjugate:	This CD56 antibody is un-conjugated	
Application:	Flow Cytometry (FACS), Western Blotting (WB), Immunohistochemistry (IHC), Immunofluorescence (IF), Immunochromatography (IC), Live Cell Imaging (LCI)	
Product Details		
Purpose:	A Rabbit Polyclonal Antibody to Neural Cell Adhesion Molecule 1 (CD56)	
Immunogen:	Immunogen: Synthetic peptide Immunogen Sequence: (C)DEKHIFSDDSSELTIR, corresponding to amino acid residues 261-276 of rat NCAM-1	
Isotype:	lgG	
Specificity:	Extracellular, N-terminus	
Cross-Reactivity:	Human, Mouse, Rat	
Predicted Reactivity:	Mouse - identical, human - 13,15 amino acid residues identical	

Anti-CD56/NCAM1 (extracellular) Antibody (ABIN7043350, ABIN7044686 and ABIN7044687) is

Product Details	
Purification:	a highly specific antibody directed against rat Neural cell adhesion molecule 1. The antibody can be used in western blot, live cell imaging, and immunohistochemistry applications. The antibody recognizes an extracellular epitope and is thus ideal for detecting the protein in living cells. It has been designed to recognize NCAM1 from rat, mouse and human samples. Affinity purified on immobilized antigen.
Grade:	KO Validated
Grade.	NO validated
Target Details	
Target:	CD56 (NCAM1)
Alternative Name:	NCAM1 (NCAM1 Products)
Background:	Neural cell adhesion molecule 1, NCAM-1,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: CD56 (NCAM1), Neural cell adhesion molecule 1, NCAM-1
Gene ID:	24586
NCBI Accession:	NM_000615
UniProt:	P13596
Application Details	
Application Notes:	Antigen preadsorption control: 1 μg peptide per 1 μg antibody
	Application Dilutions Immunohistochemistry paraffin embedded sections ihc: 1:300

Application Details

	Application Dilutions Western blot wb: 1:200-1:400
Comment:	Negative Control: (ABIN7236018) Blocking Peptide: (ABIN7236018)
Restrictions:	For Research Use only

Handling

Format:	Lyophilized
Reconstitution:	Recosntitute with double distilled water (DDW) to a concentration of 1.0 mg/mL.
Concentration:	1 mg/mL
Buffer:	PBS pH 7.4
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 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).

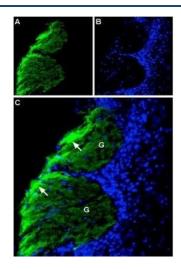
Images

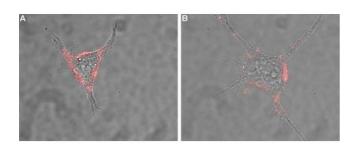


Western Blotting

Image 1. Western blot analysis of mouse brain (lanes 1 and 6), rat cerebellum (lanes 2 and 7), rat eye (lanes 3 and 8), human SH-SY5Y brain neuroblastoma (lanes 4 and 9) and PC12 rat pheochromocytoma (lanes 5 and 10) cells lysates:

1-5. Anti-CD56/NCAM1 (extracellular)
Antibody (ABIN7043350, ABIN7044686 and ABIN7044687), (lanes 1-3 1:400 and lanes 4-5 1:200).6-10. Anti-CD56/NCAM1 (extracellular) Antibody, preincubated with CD56/NCAM1 (extracellular) Blocking Peptide (#BLP-NR041).





Immunohistochemistry

Image 2. Expression of NCAM1 in rat olfactory bulb - Immunohistochemical staining of rat olfactory bulb frozen section using Anti-CD56/NCAM1 (extracellular) Antibody (ABIN7043350, ABIN7044686 and ABIN7044687), (1:300). A. NCAM1 staining (green) appears in glomeruli (G) and is particularly intense in the outer border (arrows). B. Nuclei are stained using DAPI as the counterstain. C. Merged image of A and B panels.

Immunocytochemistry

Image 3. Expression of NCAM1 in rat PC12 cells - Cell surface detection of NCAM1 in intact living rat pheochromocytoma (PC12) cells using Anti-CD56/NCAM1 (extracellular) Antibody (ABIN7043350, ABIN7044686 and ABIN7044687), (1:100). A, B. Extracellular staining of cells merged with a live view of the cells.