#3576 Store at -20C

NCAM1 (CD56) (123C3) Mouse



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Applications: WB, IHC-P, IF-IC, FC-L	Reactivity: H	Sensitivity: Endogenous	MW (kDa): 120 to 220	Source/Isotype: Mouse IgG1	UniProt ID: #P13591	Entrez-Gene Id 4684	
Product Usage Information	Ар	Application				Dilution	
	We	Western Blotting				1:1000	
	Imr	Immunohistochemistry (Paraffin)				1:800	
	Imr	Immunofluorescence (Immunocytochemistry)				1:200 - 1:800	
	Flo	Flow Cytometry (Live)				1:400	
Storage		Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 μ g/ml BSA, 50% glycerol and less than 0.02% sodium azide. Store at -20 °C. Do not aliquot the antibody.					
	For	For a carrier-free (BSA and azide free) version of this product see product #97174.					
Specificity / Sensitivity NCAM (CD56) (123C3) Mouse mAb detects endogenous levels					of total CD56 protein.		
Source / Purificati	Monoclonal antibody is produced by immunizing BALB/c mice with lung carcinoma specimen.				h a membrane preparation of a small cell		
Background	imm by a neu acid carc with Hun	NCAM (neural cell adhesion molecule, CD56) is an adhesion glycoprotein with five extracellular immunoglobulin-like domains followed by two fibronectin type III repeats. Structural diversity is introduced by alternative splicing resulting in different cytoplasmic domains (1). NCAM mediates neuronal attachment, neurite extension, and cell-cell interactions through homo and heterophilic interactions. PSA (polysialic acid) post-translationally modifies NCAM and increases the metastatic potential of small cell lung carcinoma, Wilms+ tumor, neuroblastoma, and rhabdomyosarcoma (2). CD56 is commonly used along with CD3 and CD16 to identify human natural killer (NK) cells (mouse NK cells do not express CD56) (3). Human NK cells are CD3-CD56+. The large subset with high CD16 expression are mature cytotoxic NK cells, while those with low CD16 expression are immature precursors and cytokine producers (4,5).					
Background Refe	2. S 3. H 4. R 5. R	 Cunningham, B. A. et al. (1987) Science 236, 799-806. Seidenfaden, R. et al. (2003) Mol. Cell. Biol. 23, 5908-5918. Hayakawa, Y. et al. (2006) Immunol Rev 214, 47-55. Robertson, M.J. and Ritz, J. (1990) Blood 76, 2421-2438. Robertson, M.J. and Ritz, J. (1990) Blood 76, 2421-38. Poli, A. et al. (2009) Immunology 126, 458-65. 					

Species Reactivity

Species reactivity is determined by testing in at least one approved application (e.g., western blot).

Western Blot Buffer

IMPORTANT: For western blots, incubate membrane with diluted primary antibody in 5% w/v nonfat dry milk, 1X TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.

Applications Key

WB: Western Blotting **IHC-P**: Immunohistochemistry (Paraffin)

IF-IC: Immunofluorescence (Immunocytochemistry) FC-L: Flow Cytometry (Live)

Cross-Reactivity Key

H: human M: mouse R: rat Hm: hamster Mk: monkey Vir: virus Mi: mink C: chicken Dm: D. melanogaster X: Xenopus Z: zebrafish B: bovine Dg: dog Pg: pig Sc: S. cerevisiae Ce: C. elegans Hr: horse

GP: Guinea Pig Rab: rabbit All: all species expected

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Limited Uses

NCAM1 (CD56) (123C3) Mouse mAb (#3576) Datasheet Without Images Cell Signaling Technology

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