11010								
e at -20C	NCAM (CD56) Antibody	Cell Signal TECHNOLO						
Store		Orders:	877-616-CELL (2355) orders@cellsignal.com					
5		Support:	877-678-TECH (8324)					
#3606		Web: 3 Trask Lane   Danvers   Mass	info@cellsignal.com cellsignal.com achusetts   01923   USA					
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For Research Use Only. Not for Use in Diagnostic Procedures.

Applications: W	<b>Reactivity:</b> H M R	<b>Sensitivity:</b> Endogenous	<b>MW (kDa):</b> 140	<b>Source/Isotype:</b> Rabbit	<b>UniProt ID:</b> #P13591	Entrez-Gene Id: 4684		
Product Usage Information		<b>Application</b> Western Blotting			Dilution 1:1000			
Storage		Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 μg/ml BSA and 50% glycerol. Store at – 20°C. Do not aliquot the antibody.						
Specificity/Sensitivity		NCAM (CD56) Antibody detects endogenous levels of total NCAM protein.						
Source / Purification		Polyclonal antibodies are produced by immunizing animals with a synthetic peptide corresponding to residues surrounding amino acid 800 of human NCAM. Antibodies are purified by protein A and peptide affinity chromatography.						
Background Background References		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).						
		1. Cunningham, B. A. 2. Seidenfaden, R. et a 3. Hayakawa, Y. et al. 4. Robertson, M.J. anc 5. Poli, A. et al. (2009)	al. (2003) <i>Mol. Cell.</i> (2006) <i>Immunol Re</i> I Ritz, J. (1990) <i>Bloo</i>	<i>Biol.</i> 23, 5908-5918. v 214, 47-55. d 76, 2421-38.				
Species Reactivi	ity	Species reactivity is de	etermined by testin	g in at least one approve	ed 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		W: Western Blotting						
Cross-Reactivity Key		H: Human M: Mouse R: Rat						
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