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[Marker Primary Antibody]

Rabbit Anti-NCR1/PE-Cy5 Conjugated antibody

Catalog Number: SL23550R-PE-Cy5

FOR RESEARCH USE ONLY

[DATASHEET]

Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Target:	Anti-NCR1/PE-Cy5
Immunogen:	KLH conjugated synthetic peptide derived from human NCR1
Purification:	affinity purified by Protein A
Concentration:	1mg/ml
Storage:	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. The lyophilized antibody is stable at room temperature for at least one month and for greater than a year when kept at -20°C. When reconstituted in sterile pH 7.4 1M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.
Applications:	Flow-Cyt=2ug/Test IF=1:100-500 not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Reactivity:	Human,Mouse
Background:	background: The natural cytotoxicity receptors (NCRs) are a recently characterized family of Ig-like activation receptors that appear to be major triggering receptors in tumor cell recognition. NCR1 is a glycoprotein that has two extracellular Ig-like domains followed by a ~40 amino acid residue stalk region, a type I transmembrane domain, and a short cytoplasmic tail. NCR1 has been shown to represent a novel NK cell-specific molecule involved in human NK cell activation. NCR1 has been implicated in NK cell-mediated lysis of several autologous tumor cells and pathogen-infected cell lines. **Function:** Cytotoxicity-activating receptor that may contribute to the increased efficiency of activated natural killer (NK) cells to mediate tumor cell lysis. **Subunit:** Interacts with CD247 and FCER1G. **Subcellular Location:** Cell membrane; Single-pass type I membrane protein. **Tissue Specificity:** Selectively expressed by both resting and activated NK

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	cells. **Similarity:** Belongs to the natural cytotoxicity receptor (NCR) family. Contains 2 Ig-like (immunoglobulin-like) domains. **Database links:** **Entrez Gene:** 9437 Human **Entrez Gene:** 17086 Mouse **Entrez Gene:** 117547 Rat Omim: 604530 Human **SwissProt:** O76036 Human **SwissProt:** Q8C567 Mouse **SwissProt:** Q9Z0H5 Rat **Unigene:** 97084 Human **Unigene:** 240231 Mouse **Unigene:** 30049 Rat Important **Note:** This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications. NKp46 is a very important natural cytotoxicity receptor that plays a key role in natural killing. The cytotoxic receptor family (NCRs) mainly includes NKp46, NKp44, and NKp30, among which NKp46 and NKp30 are expressed on all resting and activated NK cells, while NKp44 is selectively expressed on activated NK cells. Binding (cross-linking) of ligand molecules on target cells with NCRs triggers NK cell activation, leading to lysis of target cells and production of large amounts of cell factors. It has now been confirmed that NKp46 and NKp44 can recognize the viral ligand molecule hemagglutinin, while NKp46 can recognize acetylated sulfated polysaccharides on tumor cells.