SunLong Biotech Co.,LTD
Tel: 0086-571-56623320 Fax:0086-571-56623318
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[Primary Antibody]

Rabbit Anti-NCR1 antibody

Catalog Number: SL23550R

FOR RESEARCH USE ONLY

[DATASHEET]

Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Target:	NCR1
Immunogen:	KLH conjugated synthetic peptide derived from human NCR1: 1-100/304 <Extracellular>
Purification:	affinity purified by Protein A
Concentration:	1mg/ml
Storage:	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol. Shipped at 4℃. Store at -20 °C for one year. Avoid repeated freeze/thaw cycles.
Applications:	WB=1:500-2000 IHC-P=1:100-500 IHC-F=1:100-500 IF=1:100-500 Flow-Cyt=2ug/Test （Paraffin sections need antigen repair） not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Reactivity:	Human, Mouse
Predicted MW.:	31kDa
Subcellular Location:	The cell membrane
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

Important Note: This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.

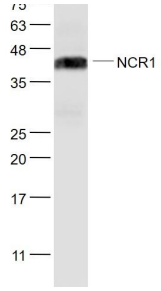
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	lysis. **Subunit:** Interacts with CD247 and FCER1G. **Subcellular Location:** Cell membrane; Single-pass type I membrane protein. **Tissue Specificity:** Selectively expressed by both resting and activated NK cells. **Similarity:** Belongs to the 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 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.

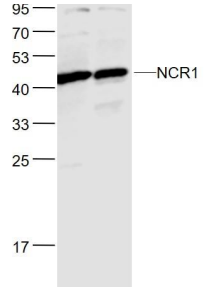
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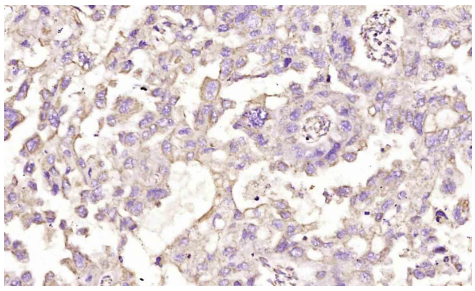
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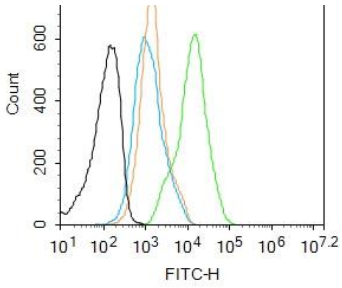
Sample:
Kidney (Mouse) Lysate at 40 ug
Primary: Anti- NCR1 (SL23550R) at 1/1000 dilution
Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution
Predicted band size: 31 kD
Observed band size: 46 kD



Sample:
A431 (Human) Cell Lysate at 30 ug
Raji (Human) Cell Lysate at 30 ug
Primary: Anti- NCR1 (SL23550R) at 1/500 dilution
Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution
Predicted band size: 31 kD
Observed band size: 46 kD



Paraformaldehyde-fixed, paraffin embedded (human skin cancer); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (NCR1) Polyclonal Antibody, Unconjugated (SL23550R) at 1:200 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructionsand DAB staining.



Blank control:Mouse spleen.
Primary Antibody (green line): Rabbit Anti-NCR1 antibody (SL23550R)
Dilution: 2µg /10^6 cells;
Isotype Control Antibody (orange line): Rabbit IgG .
Secondary Antibody : Goat anti-rabbit IgG-AF488
Dilution: 1µg /test.
Protocol
The cells were fixed with 4% PFA (10min at room temperature)and then permeabilized with 90% ice-cold methanol for 20 min at-20℃. The cells were then incubated in 5%BSA to block non-specific protein-protein interactions for 30 min at room temperature .Cells stained with Primary Antibody for 30 min at room temperature. The secondary antibody used for 40 min at room temperature. Acquisition of 20,000 events was performed.

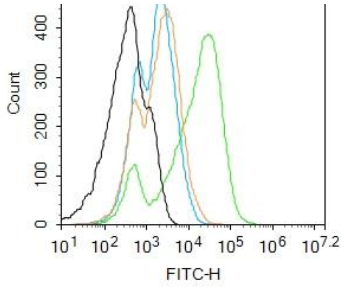
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Primary Antibody (green line): Rabbit Anti-NCR1 antibody (SL23550R)
Dilution: 2μg /10^6 cells;
Isotype Control Antibody (orange line): Rabbit IgG .
Secondary Antibody : Goat anti-rabbit IgG-AF488
Dilution: 1μg /test.
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