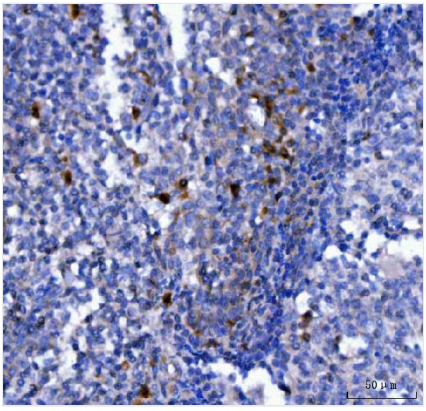
NCR1 Antibody – Rabbit Polyclonal

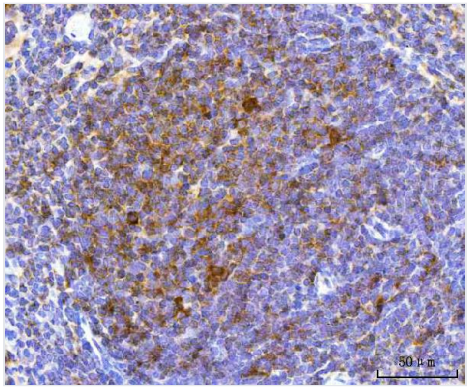
PRODUCT OVERVIEW

Product Name	NCR1, Polyclonal Antibody
Full Product Name	Anti-NCR1 Antibody Picoband
Product Gene Name	anti-NCR1 antibody
Clonality	Polyclonal
Isotype	Rabbit IgG
Host	Rabbit
Species Reactivity	Human, Mouse
Samples	Cell culture supernatants, serum and plasma (heparin, EDTA)
Detection Range	23.4 pg/ml - 1,500 pg/ml
Sensitivity	<10 pg/ml
Form/Format	Lyophilized Each vial contains 4 mg Trehalose, 0.9 mg NaCl, 0.2 mg Na2HPO4.
Purity/Purification	Immunogen affinity purified.
Concentration	Adding 0.2 ml of distilled water will yield a concentration of 500 ug/ml. (lot specific)
Specificity	Natural and recombinant Mouse, Rat Dcc
Preparation and Storage	Store at -20 degree C for one year from date of receipt. After reconstitution, at 4 degree C for one month. It can also be aliquotted and stored frozen at -20 degree C for six months. Avoid repeated freezing and thawing.
Inter-assay Precision	Inter-Assay Precision (Precision across assays): Three samples of known concentration were tested in separate assays to assess inter-assay precision.
Intra-assay Precision	Intra-Assay Precision (Precision within an assay): Three samples of known concentration were tested on one plate to assess intra-assay precision.
Molecular Weight	34,481 Da
Chromosome Location	Chromosome: 19; NC_000019.9 (55417508..55424439). Location: 19q13.42
OMIM	604530
3D Structure	ModBase 3D Structure for O76036
Product Categories/Family for anti-NCR1 antibody	Primary Antibodies, Rabbit Polyclonal Antibodies
ISO Certification	Manufactured in an ISO 13485:2003 and EN ISO 13485:2012 Certified Laboratory.
Applications Tested/Suitable for anti-NCR1 antibody	Immunohistochemistry (IHC), ELISA (EIA)
Application Notes for anti-NCR1 antibody	IHC-P: 2-5 ug/ml, Human, Mouse Direct ELISA: 0.1-0.5 ug/ml, Human Tested Species: In-house tested species with positive results. HRP Conjugated anti-Rabbit IgG Super Vision Assay Kit (#MBS176453) for IHC(P).

Related Product Information for anti-NCR1 antibody	Background: Netrin receptor DCC, also known as DCC, or colorectal cancer suppressor is a protein which in humans is encoded by the DCC gene. Predicted to enable identical protein binding activity; netrin receptor activity; and transcription coactivator activity. Involved in postsynaptic modulation of chemical synaptic transmission. Acts upstream of or within generation of neurons. Located in axon. Is integral component of postsynaptic density membrane. Is active in Schaffer collateral - CA1 synapse. Is expressed in several structures, including alimentary system; central nervous system; genitourinary system; lung; and retina. Human ortholog(s) of this gene implicated in colorectal cancer; congenital mirror movement disorder; esophageal cancer; and esophagus squamous cell carcinoma. Orthologous to human DCC (DCC netrin 1 receptor). Principle of the Assay: The Picokine™ Mouse, Rat Dcc Pre-Coated ELISA (Enzyme-Linked Immunosorbent Assay) kit is a solid-phase immunoassay specially designed to measure Mouse, Rat Dcc with a 96-well strip plate that is pre-coated with antibody specific for Dcc. The detection antibody is a biotinylated antibody specific for Dcc. The capture antibody is a monoclonal antibody from rat/mouse and the detection antibody is a biotinylated polyclonal antibody from goat. The kit contains recombinant Mouse, Rat Dcc with immunogen: Expression system for standard: sf21; Immunogen sequence: F32-N1097. The kit is analytically validated with ready-to-use reagents. To measure Mouse, Rat Dcc, add standards and samples to the wells, then add the biotinylated detection antibody. Wash the wells with PBS or TBS buffer, and add Avidin-Biotin-Peroxidase Complex (ABC-HRP). Wash away the unbounded ABC-HRP with PBS or TBS buffer and add TMB. TMB is an HRP substrate and will be catalyzed to produce a blue color product, which changes into yellow after adding the acidic stop solution. The absorbance of the yellow product at 450nm is linearly proportional to Mouse, Rat Dcc in the sample. Read the absorbance of the yellow product in each well using a plate reader, and benchmark the sample wells' readings against the standard curve to determine the concentration of Mouse, Rat Dcc in the sample.
Other Notes	Small volumes of anti-NCR1 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for NCR1 purchase	MBS1754927 is an antibody targeting NCR1. Also known as Anti-NCR1 Antibody Picoband. Reactive in Human, Mouse. Host: Rabbit.



Immunohistochemistry (IHC) of anti-NCR1 antibody
Figure 1. IHC analysis of NCR1 using anti-NCR1 antibody (MBS1754927).NCR1 was detected in a paraffin-embedded section of human tonsil tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH 8.0, epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 2 ug/ml rabbit anti-NCR1 Antibody (MBS1754927) overnight at 4 degree C. Peroxidase Conjugated Goat Anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37 degree C. The tissue section was developed using HRP Conjugated Rabbit IgG Super Vision Assay Kit with DAB as the chromogen.



Immunohistochemistry (IHC) of anti-NCR1 antibody
Figure 2. IHC analysis of NCR1 using anti-NCR1 antibody (MBS1754927).NCR1 was detected in a paraffin-embedded section of mouse spleen tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH 8.0, epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 2 ug/ml rabbit anti-NCR1 Antibody (MBS1754927) overnight at 4 degree C. Peroxidase Conjugated Goat Anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37 degree C. The tissue section was developed using HRP Conjugated Rabbit IgG Super Vision Assay Kit with DAB as the chromogen.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for NCR1. It may not necessarily be applicable to this product.

NCBI GI #	224586786
NCBI GeneID	9437
NCBI Accession #	NP_001138929.1
UniProt Primary Accession #	O76036

UniProt Secondary Accession #	O76016; O76017; O76018; B0V3L2; B0V3L3; B0V3L4; B0V3L5; B8JL03
UniProt Related Accession #	O76036
GenBank Nucleotide #	NM_001145457.1
NCBI Official Full Name	natural cytotoxicity triggering receptor 1 isoform b
NCBI Official Synonym Full Names	natural cytotoxicity triggering receptor 1
NCBI Official Symbol	NCR1
NCBI Official Synonym Symbols	LY94; CD335; NKP46; NK-p46
UniProt Protein Name	Natural cytotoxicity triggering receptor 1
UniProt Synonym Protein Names	Lymphocyte antigen 94 homolog; NK cell-activating receptor; Natural killer cell p46-related protein
Protein Family	Natural cytotoxicity triggering receptor
UniProt Gene Name	NCR1
UniProt Synonym Gene Names	LY94; NK-p46; NKp46; hNKp46
UniProt Entry Name	NCTR1_HUMAN
NCBI Protein Information	natural cytotoxicity triggering receptor 1; NK cell-activating receptor; natural killer cell p46-related protein; lymphocyte antigen 94 homolog (activating NK-receptor; NK-p46)
UniProt Comments for NCR1	NCR1: Cytotoxicity-activating receptor that may contribute to the increased efficiency of activated natural killer (NK) cells to mediate tumor cell lysis. Belongs to the natural cytotoxicity receptor (NCR) family. 6 isoforms of the human protein are produced by alternative splicing. Protein type: Membrane protein, integral; Apoptosis; Receptor, misc. Chromosomal Location of Human Ortholog: 19q13.42 Cellular Component: SWI/SNF complex; integral to plasma membrane Molecular Function: receptor signaling protein activity Biological Process: regulation of natural killer cell mediated cytotoxicity; cellular defense response; natural killer cell activation; signal transduction
Research Articles on NCR1	**1.** PLS3, Twist, KIR3DL2 and NKp46 gene expression can model efficient molecular Sezary syndrome diagnosis.
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