

## Product datasheet

# Anti-CD161 antibody [10/78] (Biotin) ab33969

### Overview

<b>Product name</b>	Anti-CD161 antibody [10/78] (Biotin)
<b>Description</b>	Mouse monoclonal [10/78] to CD161 (Biotin)
<b>Conjugation</b>	Biotin
<b>Specificity</b>	ab33969 recognises the rat CD161 protein (also known as NKRP1)
<b>Tested applications</b>	<b>Suitable for:</b> Flow Cyt
<b>Species reactivity</b>	<b>Reacts with:</b> Rat
<b>Immunogen</b>	Tissue/ cell preparation (Rat) Purified splenic NK cells from the LEW rat strain.

### Properties

<b>Form</b>	Liquid
<b>Storage instructions</b>	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Store at -20°C or -80°C. Avoid freeze / thaw cycle.
<b>Storage buffer</b>	Preservative: 0.09% Sodium Azide Constituents: 1% BSA, PBS, pH 7.4
<b>Purity</b>	Protein G purified
<b>Purification notes</b>	Prepared from tissue culture supernatant.
<b>Clonality</b>	Monoclonal
<b>Clone number</b>	10/78
<b>Myeloma</b>	x63-Ag8.653
<b>Isotype</b>	IgG1

### Applications

Our [Abpromise guarantee](#) covers the use of **ab33969** in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
Flow Cyt		

**Application notes**

Flow Cyt: Use neat, or 10µl of the suggested working dilution to label 10<sup>6</sup> cells in 100µl.

Not yet tested in other applications.

Optimal dilutions/concentrations should be determined by the end user.

**Target**

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**Function**

Plays an inhibitory role on natural killer (NK) cells cytotoxicity. Activation results in specific acid sphingomyelinase/SMPD1 stimulation with subsequent marked elevation of intracellular ceramide. Activation also leads to AKT1/PKB and RPS6KA1/RSK1 kinases stimulation as well as markedly enhanced T-cell proliferation induced by anti-CD3. Acts as a lectin that binds to the terminal carbohydrate Gal-alpha(1,3)Gal epitope as well as to the N-acetyllactosamine epitope. Binds also to CLEC2D/LLT1 as a ligand and inhibits NK cell-mediated cytotoxicity as well as interferon-gamma secretion in target cells.

**Tissue specificity**

Expressed in a subset of NK cells predominantly in intestinal epithelium and liver. Detected in peripheral blood T-cells and preferentially in adult T-cells with a memory antigenic phenotype.

**Sequence similarities**

Contains 1 C-type lectin domain.

**Post-translational modifications**

N-glycosylated. Contains sialic acid residues.

**Cellular localization**

Membrane.

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**Please note:** All products are "FOR RESEARCH USE ONLY AND ARE NOT INTENDED FOR DIAGNOSTIC OR THERAPEUTIC USE"

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