

Product datasheet

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

Overview

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

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Store at -20°C or -80°C. Avoid freeze / thaw cycle.
Storage buffer	Preservative: 0.09% Sodium Azide Constituents: 1% BSA, PBS, pH 7.4
Purity	Protein G purified
Purification notes	Prepared from tissue culture supernatant.
Clonality	Monoclonal
Clone number	10/78
Myeloma	x63-Ag8.653
Isotype	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 10⁶ cells in 100µl.

Not yet tested in other applications.

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

Target**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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