

# Anti-CD161 antibody [B199.2] ab23624

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## Overview

<b>Product name</b>	Anti-CD161 antibody [B199.2]
<b>Description</b>	Mouse monoclonal [B199.2] to CD161
<b>Host species</b>	Mouse
<b>Specificity</b>	ab23624 recognises CD161 cell surface antigen, expressed by almost all NK cells and with a small subset of CD3 positive T cells.
<b>Tested applications</b>	<b>Suitable for:</b> IHC-Fr, IP, Flow Cyt <b>Unsuitable for:</b> WB
<b>Species reactivity</b>	<b>Reacts with:</b> Human
<b>Immunogen</b>	Tissue, cells or virus corresponding to Human CD161. Activated human NK cells.
<b>Epitope</b>	Clone B199.2 recognises a similar epitope to the DX9 monoclonal antibody.
<b>General notes</b>	Myeloma cell line: P2X63.Ag8.653  The Life Science industry has been in the grips of a reproducibility crisis for a number of years. Abcam is leading the way in addressing this with our range of recombinant monoclonal antibodies and knockout edited cell lines for gold-standard validation. Please check that this product meets your needs before purchasing.  If you have any questions, special requirements or concerns, please send us an inquiry and/or contact our Support team ahead of purchase. Recommended alternatives for this product can be found below, along with publications, customer reviews and Q&As

## Properties

<b>Form</b>	Liquid
<b>Storage instructions</b>	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C or -80°C. Avoid freeze / thaw cycle.
<b>Storage buffer</b>	pH: 7.40 Preservative: 0.09% Sodium azide Constituent: PBS
<b>Purity</b>	Protein G purified
<b>Clonality</b>	Monoclonal
<b>Clone number</b>	B199.2

## Applications

### The Abpromise guarantee

Our **Abpromise guarantee** covers the use of ab23624 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
IHC-Fr		Use at an assay dependent concentration.
IP		Use at an assay dependent concentration.
Flow Cyt		Use at an assay dependent concentration. Use 10ul for 10 <sup>6</sup> cells in 100ul, or 1/50 - 1/100. <b>ab170190</b> - Mouse monoclonal IgG1, is suitable for use as an isotype control with this antibody.

### Application notes

Is unsuitable for WB.

## 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.

**Please note:** All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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