

Product datasheet

Anti-CD161 antibody [B199.2] ab23624

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Overview

Product name	Anti-CD161 antibody [B199.2]
Description	Mouse monoclonal [B199.2] to CD161
Host species	Mouse
Specificity	ab23624 recognises CD161 cell surface antigen, expressed by almost all NK cells and with a small subset of CD3 positive T cells.
Tested applications	Suitable for: Flow Cyt, IHC-Fr, IP Unsuitable for: WB
Species reactivity	Reacts with: Human
Immunogen	Activated human NK cells.
Epitope	Clone B199.2 recognises a similar epitope to the DX9 monoclonal antibody.
General notes	Myeloma cell line: P2X63.Ag8.653

Properties

Form	Liquid
Storage instructions	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.
Storage buffer	Preservative: 0.09% Sodium Azide Constituents: PBS, pH 7.4
Purity	Protein G purified
Clonality	Monoclonal
Clone number	B199.2
Isotype	IgG1

Applications

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
Flow Cyt		Use 10µl for 10 ⁶ cells. Use 10µl for 10 ⁶ cells in 100µl, or 1/50 - 1/100.
		ab170190 - Mouse monoclonal IgG1, is suitable for use as an isotype control with this antibody.
IHC-Fr		Use at an assay dependent concentration.
IP		Use at an assay dependent concentration.
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.

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