

ARG23152 anti-CD244 antibody [2B4.69]

Package: 100 µg

Store at: -20°C

Summary

Product Description	Mouse Monoclonal antibody [2B4.69] recognizes CD244 Mouse anti Human CD244 antibody, clone 2B4.69 recognizes the CD244 cell surface antigen, also known as natural killer receptor 2B4 (NKG2B4). CD244 is a 370 amino acid single pass type I transmembrane glycoprotein with two Ig-like V type domains. CD244 is a member of the SLAM family of receptors which is expressed on natural killer (NK) cells, gamma delta T cells, CD14+ monocytes, and a subset of CD8+ T cells. CD244 was originally identified as an activating receptor on NK cells, although recent studies suggest that the receptor may have a wide range of activities including NK cell activation, costimulation, or even inhibition, depending on the cell type and stage of differentiation. The ligand of CD244 is CD48, a GPI-anchored membrane protein also belonging to the SLAM family.
Tested Reactivity	Hu
Tested Application	FACS, IP
Host	Mouse
Clonality	Monoclonal
Clone	2B4.69
Isotype	IgG1
Target Name	CD244
Species	Human
Immunogen	CD244 Fusion protein.
Conjugation	Un-conjugated
Alternate Names	NK cell activation-inducing ligand; h2B4; Natural killer cell receptor 2B4; CD antigen CD244; 2B4; NAIL; NKR2B4; SLAM family member 4; Nmrk; SLAMF4; Signaling lymphocytic activation molecule 4; NK cell type I receptor protein 2B4

Application Instructions

Application table	Application	Dilution
	FACS	1:50 - 1:200
	IP	Assay-dependent
Application Note	FACS: Use 10 µl of the suggested working dilution to label 10 ⁶ cells in 100 µl. * The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.	

Properties

Form	Liquid
Purification	Purification with Protein G.
Buffer	PBS and 0.09% Sodium azide.

Preservative	0.09% Sodium azide
Concentration	1 mg/ml
Storage instruction	For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot and store at -20°C or below. Storage in frost free freezers is not recommended. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed before use.
Note	For laboratory research only, not for drug, diagnostic or other use.

Bioinformation

Gene Symbol	CD244
Gene Full Name	CD244 molecule, natural killer cell receptor 2B4
Background	This gene encodes a cell surface receptor expressed on natural killer (NK) cells (and some T cells) that mediate non-major histocompatibility complex (MHC) restricted killing. The interaction between NK-cell and target cells via this receptor is thought to modulate NK-cell cytolytic activity. Alternatively spliced transcript variants encoding different isoforms have been found for this gene.[provided by RefSeq, Oct 2009]
Function	Modulate other receptor-ligand interactions to enhance leukocyte activation. CD244/2B4 is the only heterophilic receptor of SLAM family. [UniProt]
Calculated Mw	42 kDa
PTM	<p>N-linked glycosylation is essential for the binding to its ligand CD48. Also O-glycosylated, in contrast, O-linked sialylation has a negative impact on ligand binding.</p> <p>Phosphorylated by FYN and CSK on tyrosine residues following activation. Coligation with inhibitory receptors such as KIR2DL1 inhibits phosphorylation upon contact of NK cells with sensitive target cells. [UniProt]</p>