

Mouse Anti-Human CD244 Molecule, Natural Killer Cell Receptor 2B4 Monoclonal Antibody

Cat. No. CAB11493MH **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Mouse monoclonal antibody to human CD244 molecule, natural killer cell receptor 2B4.
Species	Human
Source	Mouse
Antigen Description	The CD244 antigen, also known as 2B4 / CD244, is a cell surface glycoprotein implicated in the regulation of natural killer and T lymphocyte function. The 2B4 / CD244 antigen identified on NK cells and T cells is capable of transmitting stimulatory signals and non-MHC-restricted killing. Reported as an activating receptor, human 2B4 / CD244 can effectively activate and enhance NK cell –mediated cytotoxicity, induce secretion of IFN- γ and matrix metalloproteinases (MMPs), as well as NK cell invasiveness. As a member of the CD2 subset of the Ig superfamily, CD244 is a high affinity ligand for CD48 and the interaction is essential for generation of NK effectors.
Specificity	Human 2B4 / SLAMF4 / CD244. No cross-reactivity with human cell lysate (293 cell line) in WB and ELISA. Human SLAMF1, Human cell lysate (293 cell line).
Immunogen	Recombinant Human 2B4 / SLAMF4 / CD244 Protein
Isotype	Mouse IgG1
Clone	4G4B7

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Purification	Protein A affinity chromatography
Applications	ELISA
Dilution	Direct ELISA: This antibody can be used at 0.5 - 1 µg/mL with the appropriate secondary reagents to detect Human 2B4. The detection limit for Human 2B4 is approximately 0.039 ng/well.
Preparation	This antibody was produced from a hybridoma resulting from the fusion of a mouse myeloma with B cells obtained from a mouse immunized with purified, human cell-derived, recombinant Human 2B4 / SLAMF4 / CD244. The IgG fraction of the cell culture supernatant was purified by Protein A affinity chromatography.
Format	0.2 µm filtered solution in PBS with 5% trehalose
Storage	This antibody can be stored at 2-8 °C for one month without detectable loss of activity. Antibody products are stable for twelve months from date of receipt when stored at -20 °C to -70 °C. Preservative-Free. Sodium azide is recommended to avoid contamination (final concentration 0.05%-0.1%). It is toxic to cells and should be disposed of properly. Avoid repeated freeze-thaw cycles.

GENE INFORMATION

Gene Name	CD244 CD244 molecule, natural killer cell receptor 2B4 [Homo sapiens]
Official Symbol	CD244
Synonyms	CD244; CD244 molecule, natural killer cell receptor 2B4; CD244 natural killer cell receptor 2B4 ,natural killer cell receptor 2B4; natural killer cell receptor 2B4; 2B4; NAIL; NKR2B4; Nmrk; SLAMF4; h2B4; NK cell activation-inducing ligand; NK cell type I receptor protein 2B4; NK cell activation inducing ligand NAIL;

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Gene ID	51744
mRNA Refseq	NM_001166663
Protein Refseq	NP_001160135
MIM	605554
UniProt ID	Q9BZW8
Chromosome Location	1q23.1
Pathway	Cell surface interactions at the vascular wall, organism-specific biosystem; Hemostasis, organism-specific biosystem; Natural killer cell mediated cytotoxicity, organism-specific biosystem; Natural killer cell mediated cytotoxicity, conserved biosystem;
Function	protein binding; receptor activity;