

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

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

## SPECIFICATION

<b>Product Overview</b>	Mouse monoclonal antibody to human CD244 molecule, natural killer cell receptor 2B4.
<b>Species</b>	Human
<b>Source</b>	Mouse
<b>Antigen Description</b>	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- $\gamma$ 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.
<b>Specificity</b>	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).
<b>Immunogen</b>	Recombinant Human 2B4 / SLAMF4 / CD244 Protein
<b>Isotype</b>	Mouse IgG1
<b>Clone</b>	4G4B7

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<b>Purification</b>	Protein A affinity chromatography
<b>Applications</b>	ELISA
<b>Dilution</b>	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.
<b>Preparation</b>	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.
<b>Format</b>	0.2 µm filtered solution in PBS with 5% trehalose
<b>Storage</b>	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

<b>Gene Name</b>	CD244 CD244 molecule, natural killer cell receptor 2B4 [ Homo sapiens ]
<b>Official Symbol</b>	CD244
<b>Synonyms</b>	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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<b>Gene ID</b>	51744
<b>mRNA Refseq</b>	NM_001166663
<b>Protein Refseq</b>	NP_001160135
<b>MIM</b>	605554
<b>UniProt ID</b>	Q9BZW8
<b>Chromosome Location</b>	1q23.1
<b>Pathway</b>	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;
<b>Function</b>	protein binding; receptor activity;

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