2b4/CD244 (CD244) Antibody – Rabbit Monoclonal

PRODUCT OVERVIEW

Product Name	2B4/CD244, Monoclonal Antibody
Full Product Name	Recombinant Anti-2B4/CD244 Antibody, Rabbit Monoclonal
Product Gene Name	anti-CD244 antibody
Product Synonym Names	2B4/CD244 Antibody, Rabbit MAb; CD244 molecule, natural killer cell receptor 2B4; Anti-2B4 Antibody; Anti-NAIL Antibody; Anti-NKR2B4 Antibody; Anti-Nmrk Antibody; Anti-SLAMF4 Antibody
Clonality	Monoclonal
Isotype	Rabbit IgG
Clone Number	020
Host	Rabbit
Species Reactivity	Human
Form/Format	Liquid; 0.2um filtered solution in PBS
Purity/Purification	Protein A
Specificity	Human 2B4/CD244
Preparation and Storage	This antibody can be stored at 2-8 degree C for one month without detectable loss of activity. Antibody products are stable for twelve months from date of receipt when stored at -20 degree C to -80 degree C. Preservative-Free. Avoid repeated freeze-thaw cycles.
Molecular Weight	30,784 Da
Antibody Type	Recombinant Antibody
Immunogen	Recombinant Human 2B4/CD244 protein
Conjugation	Unconjugated
Preparation	This antibody was obtained from a rabbit immunized with purified, recombinant Human 2B4/CD244 (rh 2B4/CD244).
Product Categories/Family for anti-CD244 antibody	Cancer Drug Targets ITIM/ITAM Immunoreceptors and Related Molecules
Applications Tested/Suitable for anti-CD244 antibody	ELISA (EIA)
Application Notes for anti-CD244 antibody	ELISA: 1:5000-1:10,000
Related Product Information for anti-CD244 antibody	The CD244 antigen, also known as 2B4, is a cell surface glycoprotein implicated in the regulation of natural killer and T lymphocyte function. 2B4 is a member of the signaling lymphocyte activation molecule (SLAM)-related receptor family and is important for stimulating NK cell cytotoxicity and cytokine production, which is expressed on all NK cells, a subpopulation of T cells, monocytes and basophils. The 2B4 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 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 cell surface glycoprotein of the Ig-superfamily structurally related to CD2-like molecules such as CD2, CD48, CD58, CD84, Ly-9, and SLAM, 2B4 (CD244) is expressed on all human NK cells, a subpopulation of T cells, basophils and monocytes. 2B4 activates NK cell mediated cytotoxicity, induces secretion of IFN-gamma and matrix metalloproteinases, and NK cell invasiveness.

Product References and Citations for anti-CD244 antibody	Nakajima H, et al. (2000) 2B4: an NK cell activating receptor with unique specificity and signal transduction mechanism. Hum Immunol. 61(1): 39-43.Chuang SS, et al. (2001) 2B4 (CD244)-mediated activation of cytotoxicity and IFN-gamma release in human NK cells involves distinct pathways. J Immunol. 167(11): 6210-6.McNerney ME, et al. (2005) 2B4 (CD244) is a non-MHC binding receptor with multiple functions on natural killer cells and CD8+ T cells. Mol Immunol. 42(4): 489-94.Mathew SO, et al. (2009) Functional role of human NK cell receptor 2B4 (CD244) isoforms. Eur J Immunol. 39(6): 1632-41.
Other Notes	Small volumes of anti-CD244 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for CD244 purchase	MBS8100353 is an antibody targeting CD244. Also known as Recombinant Anti-2B4/CD244 Antibody, Rabbit Monoclonal. Reactive in Human. Host: Rabbit.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for CD244. It may not necessarily be applicable to this product.

NCBI GI #	7706529
NCBI GeneID	51744
NCBI Accession #	NP_057466.1
UniProt Secondary Accession #	Q5VYI2; Q5VYI6; Q5VYI7; Q96T47; Q9NQD2; Q9NQD3; Q9Y288
UniProt Related Accession #	Q9BZW8
GenBank Nucleotide #	NM_016382.3
NCBI Official Full Name	natural killer cell receptor 2B4 isoform 1
NCBI Official Synonym Full Names	CD244 molecule
NCBI Official Symbol	CD244
NCBI Official Synonym Symbols	2B4; NAIL; Nmrk; NKR2B4; SLAMF4
Protein Family	Natural killer cell receptor
NCBI Protein Information	natural killer cell receptor 2B4
NCBI Summary for CD244	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]
Research Articles on CD244	**1.** SLAMF4 gene and surface protein expression was down-regulated in CD8+ T cells from SLE patients compared with that in cells obtained from healthy donors. SLAMF4+ effector memory cells produced more granzyme B and perforin than SLAMF4- cells.
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