

Rabbit anti-Human 2B4/CD244 Monoclonal Antibody | anti-CD244 antibody

Recombinant Anti-2B4/CD244 Antibody, Rabbit Monoclonal

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA254229	Rabbit	Human	Immunoprecipitation, ELISA, Western Blot

PRODUCT SYNONYMS

2B4/CD244; Monoclonal Antibody; Recombinant Anti-2B4/CD244 Antibody; Rabbit Monoclonal; 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; anti-CD244 antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human
Clonality	Monoclonal
Isotype	Rabbit IgG
Clone Number	025
Specificity	Human 2B4/CD244
Purity/Purification	Protein A
Form/Format	Liquid; 0.2um filtered solution in PBS
Applicable Applications for anti-CD244 antibody	IP (Immunoprecipitation), ELISA, WB (Western Blot)
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).
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.

IMAGES



IP (Immunoprecipitation)

2B4 was immunoprecipitated using: Lane A: 0.5 mg Daudi Whole Cell Lysate 2 uL anti-2B4 rabbit monoclonal antibody and 15 ul of 50 % Protein G agarose. Primary antibody: Anti-2B4 rabbit monoclonal antibody, at 1:200 dilution Secondary antibody: Dylight 800-labeled antibody to rabbit IgG (H+L), at 1:5000 dilution Developed using the odssey technique. Performed under reducing conditions. Predicted band size: 42 kDa Observed band size: 28 kDa



WB (Western Blot)

Anti-2B4 rabbit monoclonal antibody at 1:500 dilution Lane A: Daudi Whole Cell Lysate Lysates/proteins at 30 ug per lane. Secondary Goat Anti-Rabbit IgG H&L (Dylight800) at 1/10000 dilution. Developed using the Odyssey technique. Performed under reducing conditions. Predicted band size: 42 kDa Observed band size: 28 kDa (We are unsure as to the identity of these extra bands).

ADDITIONAL INFORMATION

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 Categories/Family for anti-CD244 antibody	Cancer Drug Targets ITIM/ITAM Immunoreceptors and Related Molecules
References	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.

NCBI AND UNIPROT INFORMATION

NCBI GI #	7706529
NCBI GeneID	51744
NCBI Accession #	NP_057466.1
NCBI GenBank Nucleotide #	NM_016382.3
Molecular Weight	30,784 Da
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
NCBI Protein Information	natural killer cell receptor 2B4

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.