

Anti-CD244/2B4/SLAMF4 (Extracellular region) M053 Antibody

Catalog # AN1707

Product Information

Application WB, ICC, IP
Primary Accession Q9BZW8
Host Mouse

Clonality Mouse Monoclonal

IsotypeIgG1Clone NamesM053Calculated MW41616

Additional Information

Gene ID 51744

Other Names Natural killer cell receptor 2B4, 2B4, NK cell activation-inducing ligand, NAIL

NK cell type I receptor protein 2B4, NKR2B4, h2B4, SLAM family member 4,

SLAMF4, Signaling lymphocytic activation molecule 4, CD244

Target/Specificity CD244 (Natural killer (NK) cell receptor 2B4/SLAMF4) is an Ig superfamily

signaling lymphocyte activation molecule (SLAM) receptor. Like all SLAM family receptors, it has an extracellular segment with two immunoglobulin (Ig)-like domains, and a cytoplasmic domain containing four immunoreceptor tyrosine-based switch motifs. CD244 does not act as a selfligand similar to other SLAM family receptors. It binds CD48, a transmembrane receptor ubiquitously expressed on hematopoietic cells. CD244 activity is controlled by the presence or absence of small cytoplasmic adapter proteins, SH2D1A/SAP and/or SH2D1B/EAT-2. Downstream signaling involves predominantly VAV1, and, to a lesser degree, INPP5D/SHIP1 and CBL. Activation of CD244 stimulates NK cell cytotoxicity, production of IFN-y and granule exocytosis. CD244 is involved in the regulation of CD8+ T-cell proliferation, and inhibits

inflammatory responses in dendritic cells (DCs). In cancers, CD244 shows increased expression in intratumoral DCs and myeloid suppressor cells, and anti-CD244 therapies may increase infiltrating T-cells and impair tumor

growth.

Dilution WB~~1:1000 ICC~~N/A IP~~N/A

Format Protein G Purified

Storage Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store

at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions Anti-CD244/2B4/SLAMF4 (Extracellular region) M053 Antibody is for research

use only and not for use in diagnostic or therapeutic procedures.

Shipping Blue Ice

Background

CD244 (Natural killer (NK) cell receptor 2B4/SLAMF4) is an Ig superfamily signaling lymphocyte activation molecule (SLAM) receptor. Like all SLAM family receptors, it has an extracellular segment with two immunoglobulin (Ig)-like domains, and a cytoplasmic domain containing four immunoreceptor tyrosine-based switch motifs. CD244 does not act as a selfligand similar to other SLAM family receptors. It binds CD48, a transmembrane receptor ubiquitously expressed on hematopoietic cells. CD244 activity is controlled by the presence or absence of small cytoplasmic adapter proteins, SH2D1A/SAP and/or SH2D1B/EAT-2. Downstream signaling involves predominantly VAV1, and, to a lesser degree, INPP5D/SHIP1 and CBL. Activation of CD244 stimulates NK cell cytotoxicity, production of IFN-y and granule exocytosis. CD244 is involved in the regulation of CD8+ T-cell proliferation, and inhibits inflammatory responses in dendritic cells (DCs). In cancers, CD244 shows increased expression in intratumoral DCs and myeloid suppressor cells, and anti-CD244 therapies may increase infiltrating T-cells and impair tumor growth.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.