

Mouse anti-Human CD244/2B4/SLAMF4 Monoclonal Antibody | anti-CD244/2B4/SLAMF4 antibody

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

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA71589	Mouse	Human	Immunocytochemistry, Immunoprecipitation, ELISA, Western Blot

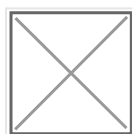
PRODUCT SYNONYMS

CD244/2B4/SLAMF4; Monoclonal Antibody; CD244/2B4/SLAMF4 (Extracellular region) M053 Antibody; CD244 053; anti-CD244/2B4/SLAMF4 antibody

PRODUCT SPECIFICATIONS

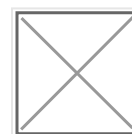
Host	Mouse
Reactivity	Human
Clonality	Monoclonal
Isotype	IgG1
Clone Number	M053
Specificity	Clone M053 mouse monoclonal antibody detects a 110kDa* protein on SDS-PAGE "Native" or denatured immunoblots of human THP1 monocytes. The antibody prefers the native CD244 protein, but also detects denatured CD244. The antibody works for western blot, immunoprecipitation, immunocytochemistry, and ELISA capture.
Purity/Purification	Protein G chromatography
Form/Format	Mouse monoclonal antibody purified with protein G chromatography is supplied in 100ul phosphate-buffered saline, 50% glycerol, 1mg/ml BSA, and 0.05% sodium azide.
Applicable Applications for anti-CD244/2B4/SLAMF4 antibody	ICC (Immunocytochemistry), IP (Immunoprecipitation), ELISA, WB (Western Blot)
Immunogen	Clone (M053) was generated from a recombinant protein that included the extracellular region of human CD244 protein.
Preparation and Storage	Store at -20 degree C. Stable for 1 year.

IMAGES



ICC (Immunocytochemistry)

Immunocytochemical labeling of CD244 in aldehyde fixed and NP-40 permeabilized PMA-differentiated human THP-1 cells. The cells were labeled with mouse monoclonal anti-CD244/2B4/SLAMF4 (CM0531). The antibody was detected using goat anti-mouse DyLight 594.



WB (Western Blot)

Western blot of native (lane 1 and 3) and denatured (lane 2 and 4) lysates of human THP-1 monocytes. The blot was probed with mouse monoclonals anti-CD244/2B4/SLAMF4 (CM0531) (lanes 1 and 2) or anti-CD244/2B4/SLAMF4 (CM0851). Both antibodies were used at 1:250.

ADDITIONAL INFORMATION

Related Product Information for anti-CD244/2B4/SLAMF4 antibody	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-gamma 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.
References	Boles, K.S. et al. (2001) Immunol Rev. 181:234. Agresta, L. et al. (2018) Front Immunol. 9:2809.

NCBI AND UNIPROT INFORMATION

NCBI GI #	47605541
NCBI GeneID	51744
UniProt Accession #	Q9BZW8; Q5VYI2; Q5VYI6; Q5VYI7; Q96T47; Q9NQD2; Q9NQD3; Q9Y288
Molecular Weight	370
NCBI Official Full Name	Natural killer cell receptor 2B4
NCBI Official Synonym Full Names	CD244 molecule, natural killer cell receptor 2B4
NCBI Official Symbol	CD244
NCBI Official Synonym Symbols	2B4; NAIL; Nmrk; NKR2B4; SLAMF4
NCBI Protein Information	natural killer cell receptor 2B4; h2B4; SLAM family member 4; NK cell activation-inducing ligand; NK cell type I receptor protein 2B4; NK cell activation inducing ligand NAIL; signaling lymphocytic activation molecule 4
UniProt Protein Name	Natural killer cell receptor 2B4
UniProt Gene Name	CD244
UniProt Synonym Gene Names	2B4; NAIL; NKR2B4; h2B4; SLAMF4
UniProt Entry Name	CD244_HUMAN

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.