

Product datasheet for **TA389095**

CD244 Mouse Antibody [Clone ID: M053]

Product data:

Product Type:	Primary Antibodies
Clone Name:	M053
Applications:	ICC, IP, WB
Recommended Dilution:	WB: 1:500 ICC: 1:200
Reactivity:	Human
Host:	Mouse
Isotype:	IgG1
Immunogen:	Clone (M053) was generated from a recombinant protein that included the extracellular region of human CD244 protein.
Specificity:	Clone M053 mouse monoclonal antibody detects a 110 kDa* 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.
Formulation:	PBS + 1 mg/ml BSA, 0.05% NaN ₃ and 50% glycerol
Concentration:	lot specific
Purification:	Protein G Purified
Conjugation:	Unconjugated
Storage:	Storage at -20°C is recommended, as aliquots may be taken without freeze/thawing due to presence of 50% glycerol. Stable for at least 1 year at -20°C.
Stability:	After date of receipt, stable for at least 1 year at -20°C.
Predicted Protein Size:	110
Database Link:	Q9BZW8



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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- γ 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.

Note:

Protein G purified tissue culture supernatant.