

Product datasheet for **TA389096**

CD244 Mouse Antibody [Clone ID: M085]

Product data:

Product Type:	Primary Antibodies
Clone Name:	M085
Applications:	ICC, IP, WB
Recommended Dilution:	WB: 1:1000 ICC: 1:200
Reactivity:	Human
Host:	Mouse
Isotype:	IgG1
Immunogen:	Clone (M085) was generated from a recombinant protein that included the extracellular region of human CD244 protein.
Specificity:	Clone M085 mouse monoclonal antibody detects a 110 kDa* protein on SDS-PAGE "Native" immunoblots of human THP1 monocytes. The antibody detects only the native CD244 protein, and the aldehyde-fixed CD244 protein. The antibody works for native 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.