www.antibodiesinc.com
orders@antibodiesinc.com
530-758-4400

PRODUCT DATASHEET

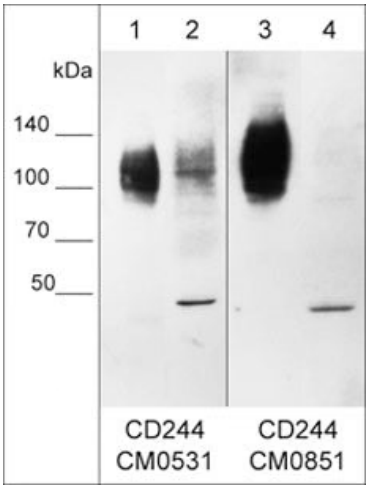
Anti-CD244/2B4/SLAMF4 (Extracellular region) M053 Antibody

Product Details

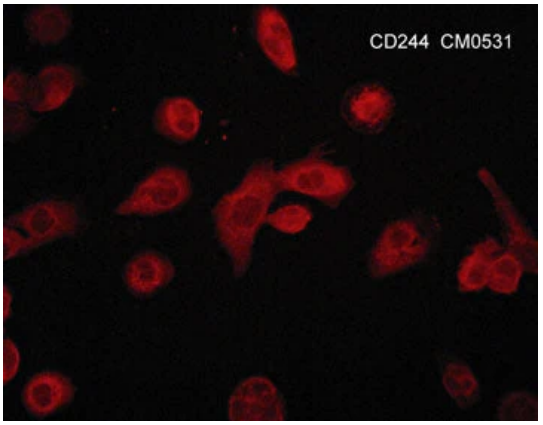
Available Variants	100 µL (SKU:CM0531)
Conjugate	Unconjugated
Isotype	IgG1
Clone	M053
Gene Name	CD244
Host Species	Mouse
Format	Protein G Purified
Physical State	Liquid
Buffer	PBS + 1 mg/ml BSA, 0.05% NaN3 and 50% glycerol
Applications	ELISA, ICC, IP, WB
Dilution Ranges	WB: 1:500 ICC: 1:200 IP: 1:100
Species Reactivity	Human
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.
Molecular Weight	110
Quality Control	Western blots performed on each lot.

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.
UniProt ID	Q9BZW8 UniProt Summary: Heterophilic receptor of the signaling lymphocytic activation molecule (SLAM) family; its ligand is CD48. SLAM receptors triggered by homo- or heterotypic cell-cell interactions are modulating the activation and differentiation of a wide variety of immune cells and thus are involved in the regulation and interconnection of both innate and adaptive immune response. Activities are controlled by presence or absence of small cytoplasmic adapter proteins, SH2D1A/SAP and/or SH2D1B/EAT-2. Acts as activating natural killer (NK) cell receptor. Activating function implicates association with SH2D1A and FYN. Downstreaming signaling involves predominantly VAV1, and, to a lesser degree, INPP5D/SHIP1 and CBL. Signal attenuation in the absence of SH2D1A is proposed to be dependent on INPP5D and to a lesser extent PTPN6/SHP-1 and PTPN11/SHP-2. Stimulates NK cell cytotoxicity, production of IFN-gamma and granule exocytosis. Optimal expansion and activation of NK cells seems to be dependent on the engagement of CD244 with CD48 expressed on neighboring NK cells. Acts as costimulator in NK activation by enhancing signals by other NK receptors such as NCR3 and NCR1. At early stages of NK cell differentiation may function as an inhibitory receptor possibly ensuring the self-tolerance of developing NK cells. Involved in the regulation of CD8(+) T-cell proliferation; expression on activated T-cells and binding to CD48 provides costimulatory-like function for neighboring T-cells. Inhibits inflammatory responses in dendritic cells (DCs).
Country of Origin	United States
Shipping	Blue Ice
Expiration	After date of receipt, stable for at least 1 year at -20°C.
Usage Statement	For research use only. Not intended for therapeutic or diagnostic use. Use of all products is subject to our terms and conditions, which can be viewed on our website.
NCBI Gene ID	51744

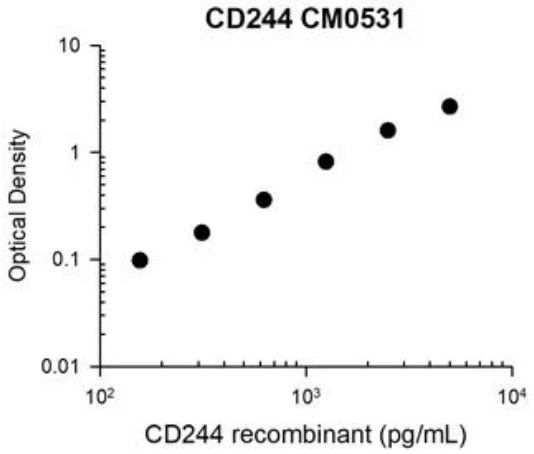
Product Images



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.



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.



Representative Standard Curve using mouse monoclonal anti-CD244 (CM0531) for ELISA capture of human recombinant CD244 extracellular region with a His-tag. Captured protein was detected by suitable anti-His-tag antibody followed by appropriate secondary antibody HRP conjugate.



Created on 22. November 2026 | All information without guarantee