

DESCRIPTION

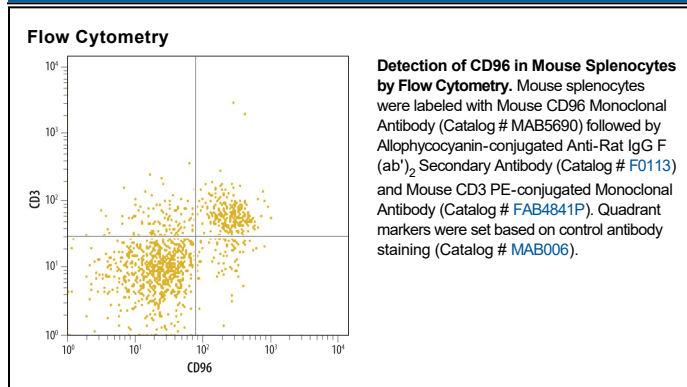
Species Reactivity	Mouse
Specificity	Detects mouse CD96 in direct ELISAs. In direct ELISAs, no cross-reactivity with recombinant human CD96v2 is observed.
Source	Monoclonal Rat IgG _{2A} Clone # 630612
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	Mouse myeloma cell line NS0-derived recombinant mouse CD96 Val22-Met536 Accession # Q3U0X8
Formulation	Lyophilized from a 0.2 µm filtered solution in PBS with Trehalose. See Certificate of Analysis for details. *Small pack size (-SP) is supplied either lyophilized or as a 0.2 µm filtered solution in PBS.

APPLICATIONS

Please Note: Optimal dilutions should be determined by each laboratory for each application. *General Protocols* are available in the *Technical Information* section on our website.

	Recommended Concentration	Sample
Flow Cytometry	2.5 µg/10 ⁶ cells	See Below
CyTOF-ready	Ready to be labeled using established conjugation methods. No BSA or other carrier proteins that could interfere with conjugation.	

DATA



PREPARATION AND STORAGE

Reconstitution	Sterile PBS to a final concentration of 0.5 mg/mL.
Shipping	The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below. *Small pack size (-SP) is shipped with polar packs. Upon receipt, store it immediately at -20 to -70 °C
Stability & Storage	Use a manual defrost freezer and avoid repeated freeze-thaw cycles. <ul style="list-style-type: none"> ● 12 months from date of receipt, -20 to -70 °C as supplied. ● 1 month, 2 to 8 °C under sterile conditions after reconstitution. ● 6 months, -20 to -70 °C under sterile conditions after reconstitution.

BACKGROUND

Mouse CD96, also known as Tactile, is a 170-180 kDa member of the Ig-Superfamily. It is expressed on CD4⁺ and CD8⁺ T cells, NK and NKT cells, resting monocytes and γδ T cells. Mouse CD96 binds to CD155 and Nectin-1, and likely participates in cell-to-cell adhesion. Mature mouse CD96 is a 581 amino acid (aa), type I transmembrane glycoprotein. It contains a 515 aa extracellular region (aa 22-536) that contains three Ig-like domains, plus a 45 aa cytoplasmic region. The two N-terminal domains are V-type (aa 24-244), while the distal domain is a C-type structure (aa 250-355). Unlike human, there is no splice variant in the second V-type domain. There is, however, a potential isoform that shows a single Cys substitution for aa 437-602. Over aa 1-536, mouse CD96 shares 55% and 79% aa identity with human and rat CD96, respectively.