Mouse CD81 Fluorescein-conjugated Antibody

Monoclonal Rat IgG_{2A} Clone # 431301

Catalog Number: FAB4865F

100 Tests

DESCRIPTION

Species Reactivity	Mouse
Specificity	Detects mouse CD81. Stains mouse CD81 transfectants but not irrelevant transfectants.
Source	Monoclonal Rat IgG_{2A} Clone # 431301
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	NS0 mouse myeloma cell line transfected with mouse CD81 Met1-Tyr236 Accession # NP_598416
Conjugate	Fluorescein Excitation Wavelength: 488 nm Emission Wavelength: 515-545 nm (FITC)
Formulation	Supplied in a saline solution containing BSA and Sodium Azide. See Certificate of Analysis for details. *Contains <0.1% Sodium Azide, which is not hazardous at this concentration according to GHS classifications. Refer to the Safety Data Sheet (SDS) for additional information and handling instructions.

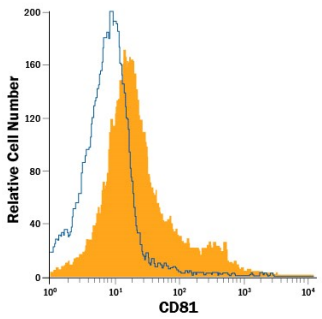
APPLICATIONS

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	10 µL/10^6 cells	See Below

DATA

Flow Cytometry



Detection of CD81 in Mouse Splenocytes by Flow Cytometry. Mouse splenocytes were stained with Rat Anti-Mouse CD81 Fluorescein-conjugated Monoclonal Antibody (Catalog # FAB4865F, filled histogram) or isotype control antibody (Catalog # IC006F, open histogram). View our protocol for Staining Membrane-associated Proteins.

PREPARATION AND STORAGE

Shipping	The product is shipped with polar packs. Upon receipt, store it immediately at the temperature recommended below.
Stability & Storage	**Protect from light. Do not freeze.** ● 12 months from date of receipt, 2 to 8 °C as supplied.

BACKGROUND

CD81, also known as TAPA-1 and Tspan28, is a widely expressed protein in the Tetraspanin family. CD81 is a multifunctional protein that interacts with a variety of other molecules, including Tetraspanins, and is important for organization of the plasma membrane into microdomains. CD81 facilitates B cell and T cell activation and is an integrin-binding adhesion molecule. CD81 expression on dendritic cells has been suggested to play a negative modulating role in certain bacterial infections such as listeria. Here, CD81 blocks Rac activation, leading to reduced postinfection survival. Mouse CD81 shares 92%-94% aa sequence identity with human and rat CD81.

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