Human CD81 Alexa Fluor® 488-conjugated Antibody

Monoclonal Mouse IgG_{2B} Clone # 454720

Catalog Number: FAB4615G

100 µg

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human CD81. Stains human CD81 transfectants but not irrelevant transfectants.
Source	Monoclonal Mouse IgG_{2B} Clone # 454720
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	HEK293 human embryonic kidney cell line transfected with human CD81 Accession # P60033
Conjugate	Alexa Fluor 488 Excitation Wavelength: 488 nm Emission Wavelength: 515-545 nm
Formulation	Supplied 0.2 mg/mL 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	0.25-1 µg/10^6 cells	Human whole blood lymphocytes

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 TM4SF4, 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 lymphocytes is altered during infection by hepatitis C virus or HIV-1 and contributes to the pathogenicity of those viruses. Human CD81 shares 92%-93% aa sequence identity with mouse and rat CD81.

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