

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human CD81 in direct ELISAs.
Source	Monoclonal Mouse IgG _{2B} Clone # 454729
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 594 Excitation Wavelength: 590 nm Emission Wavelength: 617 nm
Formulation	Supplied 0.2mg/ml in 1X PBS with RDF1 and 0.09% Sodium Azide
*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.

Immunocytochemistry	Optimal dilution of this antibody should be experimentally determined.
Immunohistochemistry	Optimal dilution of this antibody should be experimentally determined.

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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