

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human CD47. Stains human CD47 transfectants but not irrelevant transfectants.
Source	Monoclonal Mouse IgG ₁ Clone # 472603
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	Mouse myeloma cell line NS0-derived recombinant human CD47 Gln19-Pro139 Accession # Q08722
Conjugate	Alexa Fluor 700 Excitation Wavelength: 675-700 nm Emission Wavelength: 723 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 peripheral 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. <ul style="list-style-type: none"> 12 months from date of receipt, 2 to 8 °C as supplied.

BACKGROUND

CD47, also known as integrin-associated protein, is a ubiquitous 50 kDa multipass transmembrane protein with a single IgV-like domain at its N-terminus. CD47 binding to SIRPα prevents the phagocytic engulfment of viable cells. Thrombospondin interaction with CD47 on T cells reduces T cell proliferation and inflammatory reactions. Alternate splicing generates isoforms with truncated cytoplasmic domains. Within the N-terminal ECD, human CD47 shares 63% aa sequence identity with mouse and rat CD47.

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