

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human CD53. Stains human CD53 transfectants but not irrelevant transfectants.
Source	Monoclonal Mouse IgG _{2A} Clone # 425514
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	NS0 mouse myeloma cell line transfected with human CD53 Met1-Leu219 Accession # P19397
Conjugate	Alexa Fluor 405 Excitation Wavelength: 405 nm Emission Wavelength: 421 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

CD53, also known as TSPAN25, is a 35 kDa-40 kDa cell surface and endosomal membrane glycoprotein in the tetraspanin superfamily. CD53 is widely expressed on hematopoietic cells. Ligation of CD53 promotes cell activation and survival as well as homotypic cell-cell adhesion. CD53 associates with other tetraspanins, MHC class I and II molecules, and integrin α4β1. Human CD53 shares 81%-83% aa sequence identity with mouse and rat CD53.

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