Datasheet for ABIN2749207

anti-CD99 antibody (APC)

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Overview

Quantity:	100 tests
Target:	CD99
Reactivity:	Human
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This CD99 antibody is conjugated to APC
Application:	Flow Cytometry (FACS)

Product Details

Purpose:	Anti-Hu CD99 APC
Immunogen:	Human thymocytes
Clone:	3B2-TA8
Isotype:	IgG2a kappa
Specificity:	The mouse monoclonal antibody 3B2/TA8 recognizes an extracellular epitope of CD99, an approximately 32 kDa sialoglycoprotein expressed on the surface of many cell types, with particularly strong expression on Ewing´s sarcoma and peripheral primitive neuroectodermal tumors. Within the hematopoietic system, CD99 is expressed on virtually all cell types except granulocytes.
Cross-Reactivity (Details):	Human
Purification:	Purified antibody is conjugated with activated allophycocyanin (APC) under optimum conditions and unconjugated antibody and free fluorochrome are removed by size-exclusion

Product Details

	chromatography.

Target Details

Target:	CD99
Alternative Name:	CD99 (CD99 Products)
Background:	CD99 Molecule (Xg blood group),CD99 is a ubiquitous transmembrane type I sialoglycoprotein of a unique and poorly characterized protein family. CD99 is heavily O-glycosylated and was described as a T cell costimulator and strong activator of integrin-mediated actin cytoskeleton assembly, promoting cell adhesion and homotypic aggregation, immediate arrest on an inflamed vascular endothelium, and cell migration through it. Ligation of CD99 under some conditions can lead to apoptosis. Originally CD99 was described as a human thymus leukemia antigen, an Ewing´s sarcoma-specific membrane marker, and an adhesion molecule involved in spontaneous rosette formation of T cells with erythrocytes.,MIC2, HBA71, blood group Xg
Gene ID:	4267
UniProt:	P14209

Application Details

Application Notes:	Flow cytometry: The reagent is designed for analysis of human blood cells using 10 µL reagent / 100 µL of whole blood or 10^6 cells in a suspension. The content of a vial (1 ml) is sufficient for 100 tests.
Restrictions:	For Research Use only

Handling

Buffer:	Stabilizing phosphate buffered saline (PBS), pH 7.4, 15 mM sodium azide
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	4 °C
Storage Comment:	Store at 2-8°C. Protect from prolonged exposure to light. Do not freeze.

Publications

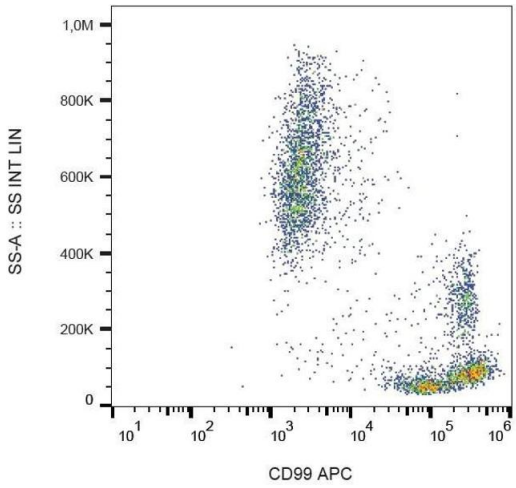
Product cited in:

Brémond, Meynet, Mahiddine, Coito, Tichet, Scotlandi, Breittmayer, Gounon, Gleeson, Bernard, Bernard: "Regulation of HLA class I surface expression requires CD99 and p230/golgin-245 interaction." in: **Blood**, Vol. 113, Issue 2, pp. 347-57, (2009) (PubMed).

Kueng, Leb, Haiderer, Raposo, Thery, Derdak, Schmetterer, Neunkirchner, Sillaber, Seed, Pickl: " General strategy for decoration of enveloped viruses with functionally active lipid-modified cytokines." in: **Journal of virology**, Vol. 81, Issue 16, pp. 8666-76, (2007) (PubMed).

Waclavicek, Majdic, Stulnig, Berger, Sunder-Plassmann, Zlabinger, Baumruker, Stöckl, Ebner, Knapp, Pickl: "CD99 engagement on human peripheral blood T cells results in TCR/CD3-dependent cellular activation and allows for Th1-restricted cytokine production." in: **Journal of immunology (Baltimore, Md. : 1950)**, Vol. 161, Issue 9, pp. 4671-8, (1998) (PubMed).

Images



Flow Cytometry

Image 1. Surface staining of human peripheral blood cells with anti-human CD99 (3B2/TA8) APC.