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Datasheet for ABIN1027670 anti-CD99 antibody (PE)

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Overview

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

Product Details

Immunogen:	Human thymocytes	
Clone:	3B2-TA8	
lsotype:	IgG2a kappa	
Specificity:	The mouse monoclonal antibody 3B2/TA8 recognizes 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 R-phycoerythrin (PE) under optimum conditions. Unconjugated antibody and free fluorochrome are removed by size-exclusion chromatography.	

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Target Details		
Target:	CD99	
Alternative Name:	CD99 (CD99 Products)	
Target Type:	Viral Protein	
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 μ L reagent / 100 μ L of whole blood or 10 ⁶ cells in a suspension. The content of a vial (1 ml) is sufficient for 100 tests.	
Comment:	The purified antibody is conjugated with R-Phycoerythrin (PE) under optimum conditions. The conjugate is purified by size-exclusion chromatography and adjusted for direct use. No reconstitution is necessary.	
Restrictions:	For Research Use only	
Handling		

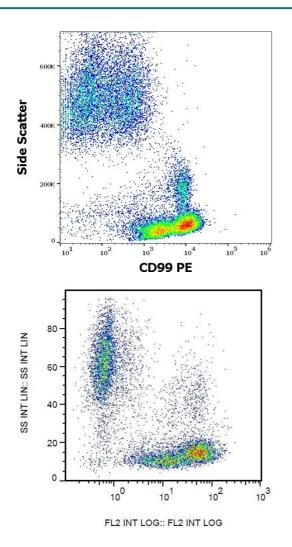
Reconstitution:	No reconstitution is necessary.
Buffer:	Stabilizing phosphate buffered saline (PBS), pH 7.4, 15 mM sodium azide
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Handling Advice:	Do not freeze.
	Avoid prolonged exposure to light.

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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).

Images



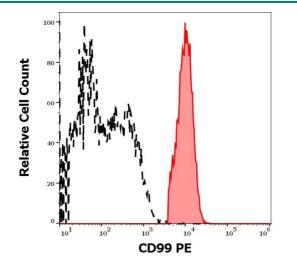
Flow Cytometry

Image 1. Flow cytometry surface staining pattern of human peripheral whole blood stained using anti-human CD99 (3B2/TA8) PE antibody (10 μ L reagent / 100 μ L of peripheral whole blood).

Flow Cytometry

Image 2. Surface staining of human peripheral blood cells with anti-human CD99 (3B2/TA8) PE.

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Flow Cytometry

Image 3. Separation of human CD99 positive lymphocytes (red-filled) from neutrophil granulocytes (black-dashed) in flow cytometry analysis (surface staining) of human peripheral whole blood stained using anti-human CD99 (3B2/TA8) PE antibody (10 μ L reagent / 100 μ L of peripheral whole blood).

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