Datasheet for ABIN1027667

anti-CD99 antibody

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Overview

Quantity:	0.1 mg
Target:	CD99
Reactivity:	Human
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This CD99 antibody is un-conjugated
Application:	Flow Cytometry (FACS), Cytometry by Time of Flight (CyTOF)

Product Details

Immunogen:	Human thymocytes
Clone:	3B2-TA8
Isotype:	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 by protein-A affinity chromatography.
Purity:	> 95 % (by SDS-PAGE)

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: Recommended dilution: 1-4 µg/mL.
Restrictions:	For Research Use only

Handling

Concentration:	1 mg/mL
Buffer:	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.**
Storage:	4 °C
Storage Comment:	Store at 2-8°C. Do not freeze.

Publications

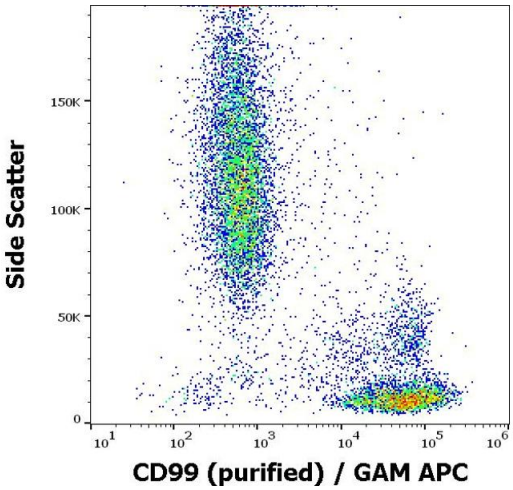
Product cited in:	Brémond, Meynet, Mahiddine, Coito, Tichet, Scotlandi, Breittmayer, Gounon, Gleeson, Bernard,

Publications

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).

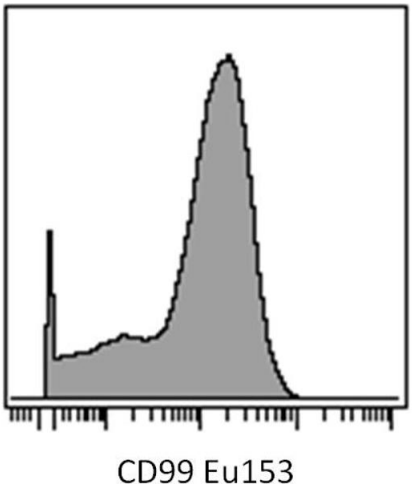
Kueng, Leb, Haiderer, Raposo, Thery, Derdak, Schmetterer, Neunkirchner, Sillaber, Seed, Pickl: " General strategy for decoration of enveloped viruses with functionally active lipid-modified cytokines." in: **Journal of virology**, Vol. 81, Issue 16, pp. 8666-76, (2007) (PubMed).

Images



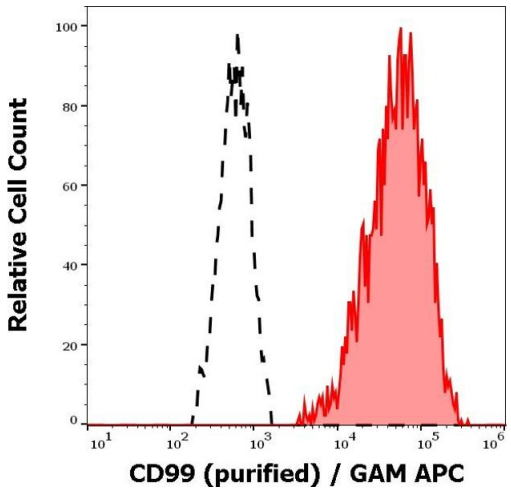
Flow Cytometry

Image 1. Flow cytometry surface staining pattern of human peripheral blood stained using anti-human CD99 (3B2/TA8) purified antibody (concentration in sample 2 µg/mL) GAM APC.



Cytometry by Time of Flight

Image 2. Mass cytometry (surface staining) of human peripheral blood cells (after separation using Ficoll-Paque density gradient centrifugation) with anti-human CD99 (3B2/TA8) Eu153. Gated on singlets.



Flow Cytometry

Image 3. Separation of human 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) purified antibody (concentration in sample 2 µg/mL) GAM APC.