ARG65389
anti-CD99 antibody [3B2/TA8]

Package: 50 µg
Store at: -20°C

Summary

Product Description	Mouse Monoclonal antibody [3B2/TA8] recognizes CD99
Tested Reactivity	Hu
Tested Application	CyTOF®-candidate, FACS
Specificity	The clone 3B2/TA8 recognizes CD99, an approximately 32 kDa sialoglycoprotein expressed on 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. HLDA VI.; WS Code T 6T-097, BP 534
Host	Mouse
Clonality	Monoclonal
Clone	3B2/TA8
Isotype	IgG2a
Target Name	CD99
Species	Human
Immunogen	Human thymocytes
Conjugation	Un-conjugated
Alternate Names	12E7; CD99 antigen; MIC2X; MIC2Y; CD antigen CD99; MSK5X; Protein MIC2; MIC2; T-cell surface glycoprotein E2; HBA71; E2 antigen

Application Instructions

Application table

Application	Dilution
CyTOF®-candidate	Assay-dependent
FACS	1 - 4 µg/ml

Application Note: * The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.

Properties

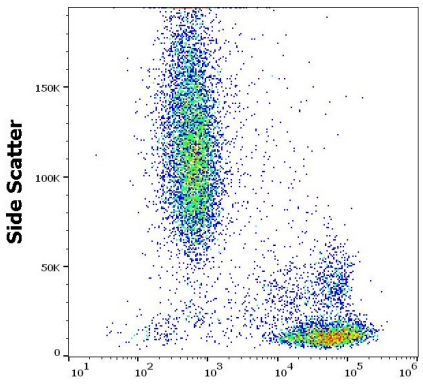
Form	Liquid
Purification	Purified from cell culture supernatant by protein-A affinity chromatography.
Purity	> 95% (by SDS-PAGE)
Buffer	PBS (pH 7.4) and 15 mM Sodium azide
Preservative	15 mM Sodium azide
Concentration	1 mg/ml

Storage instruction	For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot and store at -20°C or below. Storage in frost free freezers is not recommended. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed before use.
Note	For laboratory research only, not for drug, diagnostic or other use.

Bioinformation

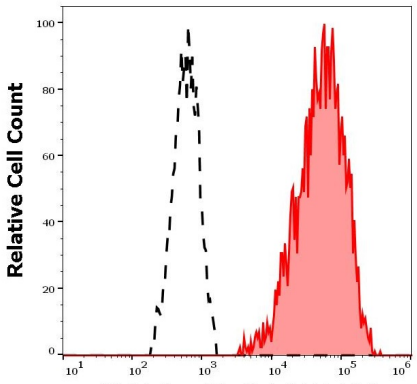
Database links	GeneID: 4267 Human Swiss-port # P14209 Human
Gene Symbol	CD99
Gene Full Name	CD99 molecule
Background	CD99 is a cell surface glycoprotein involved in leukocyte migration, T-cell adhesion, ganglioside GM1 and transmembrane protein transport, and T-cell death by a caspase-independent pathway. In addition, the encoded protein may have the ability to rearrange the actin cytoskeleton and may also act as an oncosuppressor in osteosarcoma. This gene is found in the pseudoautosomal region of chromosomes X and Y and escapes X-chromosome inactivation. There is a related pseudogene located immediately adjacent to this locus. [provided by RefSeq, Mar 2016]
Function	CD99 involved in T-cell adhesion processes and in spontaneous rosette formation with erythrocytes. Plays a role in a late step of leukocyte extravasation helping leukocytes to overcome the endothelial basement membrane. Acts at the same site as, but independently of, PECAM1. Involved in T-cell adhesion processes. [UniProt]
Research Area	Cancer antibody; Immune System antibody; Signaling Transduction antibody
Calculated Mw	19 kDa
PTM	Extensively O-glycosylated.

Images



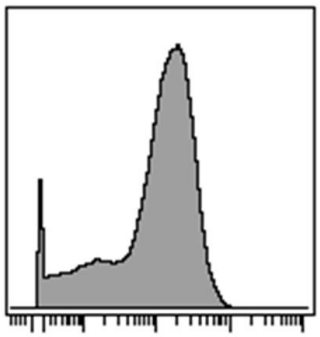
ARG65389 anti-CD99 antibody [3B2/TA8] FACS image

Flow Cytometry: Human peripheral blood stained with ARG65389 anti-CD99 antibody [3B2/TA8] at 2 µg/ml dilution, followed by APC-conjugated Goat anti-Mouse antibody.



ARG65389 anti-CD99 antibody [3B2/TA8] FACS image

Flow Cytometry: Separation of human lymphocytes (red-filled) from neutrophil granulocytes (black-dashed). Human peripheral whole blood stained with ARG65389 anti-CD99 antibody [3B2/TA8] at 2 µg/ml dilution, followed by APC-conjugated Goat anti-Mouse antibody.



ARG65389 anti-CD99 antibody [3B2/TA8] CyTOF image

CyTOF: Human peripheral blood cells (after Ficoll-Paque separation) stained with ARG65389 anti-CD99 antibody [3B2/TA8] (Eu153). Singlet cells were gated for data analysis.