ARG42266
anti-CD99 antibody [3B2/TA8] (APC)

Package: 50 tests
Store at: 4°C

Summary

Product Description	APC-conjugated Mouse Monoclonal antibody [3B2/TA8] recognizes CD99
Tested Reactivity	Hu
Tested Application	FACS
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.
Host	Mouse
Clonality	Monoclonal
Clone	3B2/TA8
Isotype	IgG2a, kappa
Target Name	CD99
Species	Human
Immunogen	Human thymocytes.
Conjugation	APC
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
FACS	10 µl / 100 µl of whole blood or 10^6 cells

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

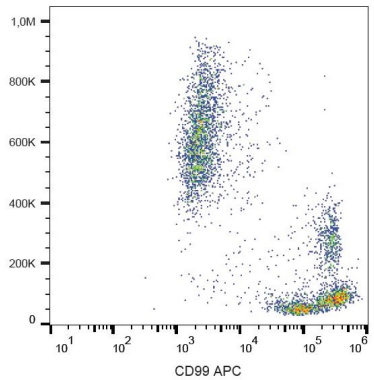
Properties

Form	Liquid
Purification	Purified
Buffer	PBS and 15 mM Sodium azide.
Preservative	15 mM Sodium azide
Storage instruction	Aliquot and store in the dark at 2-8°C. Keep protected from prolonged exposure to light. 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

Gene Symbol	CD99
Gene Full Name	CD99 molecule
Background	The protein encoded by this gene 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	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 (By similarity). [UniProt]
Calculated Mw	19 kDa
PTM	Extensively O-glycosylated. [UniProt]
Cellular Localization	Membrane; Single-pass type I membrane protein. [UniProt]

Images



ARG42266 anti-CD99 antibody [3B2/TA8] (APC) FACS image

Flow Cytometry: Human peripheral blood cells stained with ARG42266 anti-CD99 antibody [3B2/TA8] (APC).