

GMP PE anti-human CD99 Antibody

Catalog# / Size	260284 / 100 tests
Clone	3B2/TA8
Other Names	CD99, MIC2, HBA71, MSK5X, E2 antigen
Isotype	Mouse IgG2a, κ
Description	CD99 is a type I single chain transmembrane protein devoid of N-linked glycosylation sites encoded by the pseudoautosomal gene MIC2. CD99 has an apparent molecular weight of 32 kD and is widely expressed on a variety of tissues. CD99 is highly expressed on thymocytes, T cells, and T cell leukemias and lymphomas. However, it is absent on some B cell lines, fetal B cells, eosinophils, granulocytes and the NK-cell line YT. CD99 is involved in spontaneous rosette formation with erythrocytes and may also be involved in other T-cell and hematopoietic cell adhesion pathways. CD99 has been reported to activate a caspase-independent death pathway in T cells under some conditions. CD99 interacts with a number of proteins including ferritin heavy chain 1, karyopherin beta 1, TRIP13, cyclophilin A, annexin II, and ubiquitin-conjugating enzyme E2H.

Product Details

Reactivity	Human
Antibody Type	Monoclonal
Host Species	Mouse
Immunogen	Human thymus
Formulation	Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide and 0.2% (w/v) BSA (origin USA) and a stabilizer
Preparation	The antibody was purified by affinity chromatography and conjugated with PE under optimal conditions.
Concentration	50.0 $\mu\text{g}/\text{mL}$
Application	FC - Quality tested
Recommended Usage	Each lot of this antibody is quality control tested by immunofluorescent staining with flow cytometric analysis . For flow cytometric staining, the suggested use of this reagent is 5 μL per million cells in 100 μL staining volume or 5 μL per 100 μL of whole blood. It is recommended that the reagent be titrated for optimal performance for each application.

Application References

(PubMed link indicates BioLegend citation)

1. Waclavicek M, *et al.* 1998. *J. Immunol.* 161:4671.
2. Pickl W, *et al.* 2001. *J. Virol.* 75:7175.

Disclaimer

GMP RUO Flow Cytometry Antibodies. BioLegend GMP RUO fluorophore conjugated antibodies are manufactured in a dedicated GMP facility and compliant with ISO 13485:2016. For research use only. Not for use in diagnostic or therapeutic procedures. Our processes include:

- Batch-to-batch consistency
- Material traceability
- Documented procedures
- Documented employee training
- Equipment maintenance and monitoring records
- Lot-specific certificates of analysis
- Quality audits per ISO 13485:2016
- QA review of released products

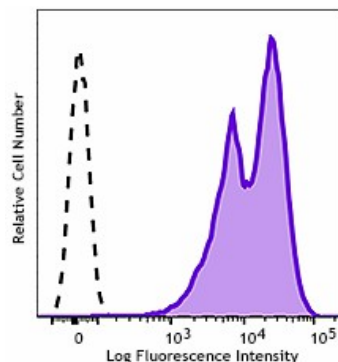
Antigen Details

Structure	Surface glycoprotein, type I transmembrane protein, 32kD.
Distribution	T-cells, thymocytes, T-cell leukemias and lymphomas. It is absent on fetal B-cells, eosinophils, granulocytes, and NK cell line YT.
Function	Leukocyte migration, T-cell adhesion, T-cell death- caspase independent, and spontaneous rosette formation with erythrocytes.
Interaction	Annexin II, E2H, Ferritin heavy chain 1, karyopherin beta 1, and TRIP13.
Cell Type	Leukemia, T cells, Thymocytes
Biology Area	Immunology
Molecular Family	Adhesion Molecules, CD Molecules
Antigen References	1. Gelin C, <i>et al.</i> 1989. <i>EMBO</i> . 8:3253. 2. Goodfellow PJ, <i>et al.</i> 1986. <i>Science</i> 234:740. 3. Pettersen RD, <i>et al.</i> 2001. <i>J. Immunol.</i> 166:4931.
Gene ID	4267

Other Formats

Purified anti-human CD99, FITC anti-human CD99, PE anti-human CD99, APC anti-human CD99, Brilliant Violet 421™ anti-human CD99, PE/Cyanine7 anti-human CD99, PerCP/Cyanine5.5 anti-human CD99, TotalSeq™-A0845 anti-human CD99, TotalSeq™-C0845 anti-human CD99, TotalSeq™-B0845 anti-human CD99, TotalSeq™-D0845 anti-human CD99

Product Data



Typical results from human peripheral blood lymphocytes stained either with 3B2/TA8 PE used at 5 µL/test (filled histogram) or with an isotype control (open histogram).

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