

## Anti- Human CD99 (3B2/TA8)

Fluorochrome	Reference	Size
APC	99A2-I00T	100 test

### PRODUCT DESCRIPTION

**Clone:** 3B2/TA8

**Isotype:** Mouse IgG2a

**Tested application:** flow cytometry

**Species reactivity:** Human

**Storage instruction:** store in the dark at 2-8 °C

**Storage buffer:** aqueous buffered solution containing protein stabilizer and 0.09% sodium azide (NaN<sub>3</sub>).

**Recommended usage:** Immunostep's CD99, clone 3B2/TA8, is a monoclonal antibody designed for the identification and enumeration of human T cells, plasma cells, and thymocytes that express CD99, utilizing flow cytometry techniques. This reagent is effective for direct immunofluorescence staining of human tissue for flow cytometric analysis using 1 test for 10<sup>6</sup> cells.

**Presentation:** liquid

**Source:** Supernatant proceeding from an *in vitro* cell culture of a cell hybridoma.

**Purification:** Affinity chromatography.

### ANTIGEN DETAILS

**Large description:** Anti-CD99 Monoclonal Antibody (Clone 3B2/TA8) targets the CD99 antigen (E2, MIC2), a 32 kDa transmembrane sialoglycoprotein expressed on all leukocyte lineages, particularly high in thymocytes and T cells, while absent in mature granulocytes. This antibody plays a crucial role in T cell adhesion and activation, as well as in hematopoietic adhesion pathways, regulating adhesive properties and programmed cell death distinct from apoptosis. CD99 is differentially expressed during lymphoid and granulocytic development, with significant involvement in T cell differentiation stages, facilitating leukocyte extravasation and spontaneous rosette formation with erythrocytes, independently of PECAMI. Ideal for research in T cell biology and hematopoietic development.<sup>(1-4)</sup>

**Other Names:** CD99R, E2, MIC2 gene product, I2E7, E2 antigen, Protein MIC2, T-cell surface glycoprotein E5.

**Gene ID:** 4267

**Molecular weight:** CD99 is an approximately 32 kDa sialoglycoprotein and is expressed highly by all leukocytes.

Please, refer to [www.immunostep.com](http://www.immunostep.com) technical support for more information.

### WARRANTY

Warranted only to conform to the quantity and contents stated on the label or in the product labelling at the time of delivery to the customer. Immunostep disclaims hereby other warranties. Immunostep's sole liability is limited to either the replacement of the products or refund of the purchase price.

### REFERENCES

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2. Cho NH, Kim YT, Lee JH, Song C, Cho SW, Cho SH, et al. Diagnostic challenge of fetal ontogeny and its application on the ovarian teratomas. *Int J Gynecol Pathol*2005 Apr;24(2):173-82.
3. Sebire NJ, Gibson S, Rampling D, Williams S, Malone M, Ramsay AD. Immunohistochemical findings in embryonal small round cell tumors with molecular diagnostic confirmation. *Appl Immunohistochem Mol Morphol*2005 Mar;13(1):1-5.
4. Sokmensuer LK, Muftuoglu S, Asan E. Immunohistochemical analysis of CD71, CD98 and CD99 activation antigens in human palatine and nasopharyngeal tonsils. *Saudi Med J*2005 Mar;26(3):385-9.

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