

## FITC anti-human CD99

**Catalog # / Size:** 318006 / 100 tests

**Clone:** HCD99

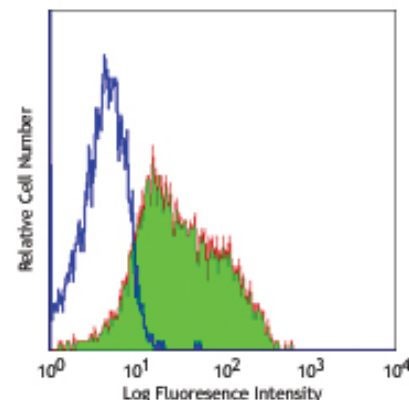
**Isotype:** Mouse IgG2a,  $\kappa$

**Reactivity:** Human

**Preparation:** The antibody was purified by affinity chromatography, and conjugated with FITC under optimal conditions. The solution is free of unconjugated FITC.

**Formulation:** Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide and 0.2% (w/v) BSA (origin USA).

**Storage:** The antibody solution should be stored undiluted at 4°C and protected from prolonged exposure to light. **Do not freeze.**



Human peripheral blood lymphocytes stained with HCD99 FITC

## Applications:

**Applications:** FC - Quality tested

**Recommended Usage:** Each lot of this antibody is quality control tested by immunofluorescent staining with flow cytometric analysis. **Test size products are transitioning from 20  $\mu$ l to 5  $\mu$ l per test.** Please check your vial or your CoA to find the suggested use of this reagent per million cells in 100  $\mu$ l staining volume or per 100  $\mu$ l of whole blood. It is recommended that the reagent be titrated for optimal performance for each application. Read more at [www.biolegend.com/testsize](http://www.biolegend.com/testsize) regarding the test size change.

**Application Notes:** Additional reported (for the relevant formats) applications include: immunohistochemical staining of acetone-fixed frozen sections and formalin-fixed paraffin-embedded tissues.

**Application References:** 1. Tadamitsu K, *et al.* eds. 1997. Leukocyte Typing VI Garland Publishing Inc. London.

**Description:** The HCD99 monoclonal antibody recognizes human CD99 also known as CD99 antigen, E2 antigen, MIC2, and T-cell surface glycoprotein E2. CD99 is a type I, single chain transmembrane protein devoid of N-linked glycosylation sites that is encoded by the pseudoautosomal gene MIC2. CD99 has an apparent molecular weight 32 kD and is widely expressed on a variety of tissues. CD99 is highly expressed on thymocytes, T cells, T cell leukemias and lymphomas and is absent on fetal B cells, some B cell lines, 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. The HCD99 antibody has been reported to be useful for flow cytometric detection of human CD99 and immunohistochemistry (acetone-fixed frozen tissues and formalin-fixed paraffin-embedded tissues).

**Antigen References:** 1. Gelin C, *et al.* 1989. *EMBO J.* 8:3253.  
2. Goodfellow PJ, *et al.* 1986. *Science* 234:740.  
3. Pettersen RD, *et al.* 2001. *J. Immunol.* 166:4931.

Related Products:	Product	Clone	Application
	Cell Staining Buffer		FC, ICC, ICFC
	FITC Mouse IgG2a, $\kappa$ Isotype Ctrl (FC)	MOPC-173	FC
	Human TruStain FcX™ (Fc Receptor Blocking Solution)		FC, ICC, ICFC



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