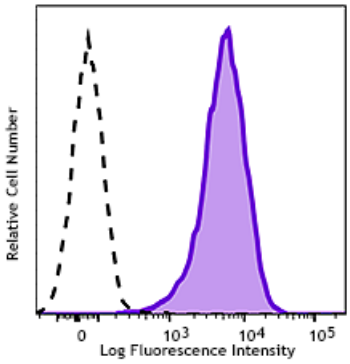
SONY

Product Data Sheet

FITC anti-human CD99

Catalog # / Size:	2591040 / 100 tests 2591035 / 25 tests
Clone:	hec2
Isotype:	Mouse IgG1, κ
Immunogen:	Human endothelial cells
Reactivity:	Human
Preparation:	The antibody was purified by affinity chromatography and conjugated with FITC under optimal conditions.
Formulation:	Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide and 0.2% (w/v) BSA (origin USA)
Concentration:	lot-specific



Human peripheral blood lymphocytes were stained with anti-human CD99 (clone hec2) FITC (filled histogram) or mouse IgG1, κ FITC isotype control (open histogram).

Applications:

Applications:	Flow Cytometry
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:	1. Schenkel AR, *et al.* 2002. *Nat. Immunol.* 3:143-50. (IHC, FC, WB) 2. Lou O, et al. 2007. J. Immunol. 178:1136-43. (Block, FC) 3. Watson RL, *et al.* 2015. *J. Exp. Med.* 212:1021-41. (IP, WB)

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.
Antigen References:	1. Gelin C, *et al.* 1989. *EMBO J.* 8:3253-59. 2. Goodfellow PJ, *et al.* 1986. *Science*. 234:740-43. 3. Pettersen RD, *et al.* 2001. *J. Immunol.* 166:4931-42.

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