

cFluor™ B532 Anti-Human CD19 (HIB19)

PRODUCT DETAILS	
Catalog Number:	R7-20071 (100 tests) R7-20072 (25 tests)
Reactivity:	Human, Chimpanzee, Rhesus
Clone:	HIB19
Format:	cFluor™ B532*
Isotype:	Mouse IgG1, κ
Volume Per Test:	5 µL / test
Application:	Flow cytometry
Formulation:	Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide and 0.2% BSA (Origin USA)
Storage:	2-8°C and protected from light. Do not freeze

PRODUCT DESCRIPTION

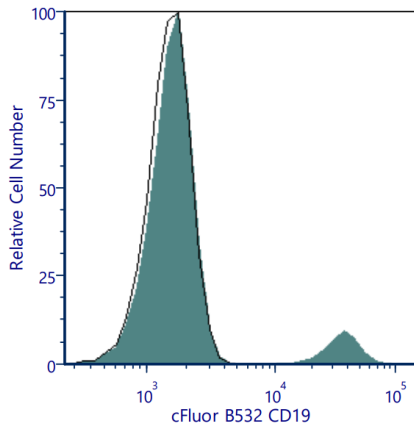
The HIB19 monoclonal antibody binds to human CD19, a 95-kDa type I transmembrane glycoprotein in the immunoglobulin superfamily. CD19 forms a signal transduction complex with the complement receptor 2 (CD21), a tetraspanin membrane protein, TAPA-1 (CD81), and Lue 13 to function as a dominant signaling component on the surface of B cells^{1,2}. It is expressed in all phases of B cell development, maturation and differentiation except at the terminal stage of differentiation, lost in plasma cells³. It is also present on follicular dendritic cells and absent on T cells.

The antibody was conjugated to a fluorophore and purified by affinity chromatography.

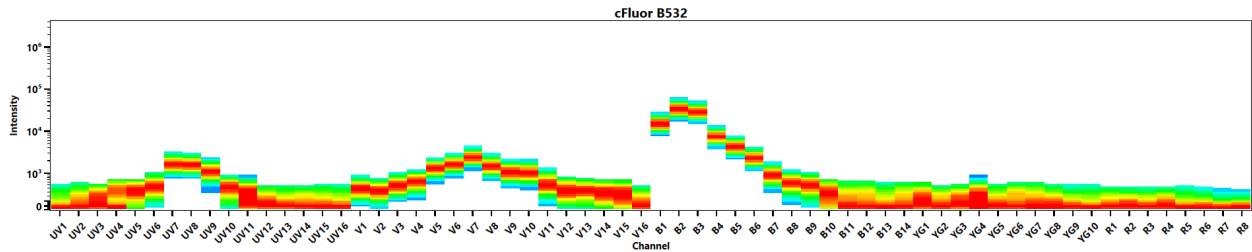
RECOMMENDED USAGE

Each lot of this antibody is quality control tested using flow cytometric analysis. For flow cytometric staining, the suggested use of this reagent is 5 µL per 1 million cells in a staining volume of 100 µL. If whole blood is analyzed, then use 5 µL per 100 µL. It is recommended that users titrate the antibody to obtain the optimal result for their specific application.

PRODUCT DATA



Human peripheral blood was stained with cFluor™ B532 CD19 (clone HIB19) (filled histogram) or mouse cFluor™ B532 IgG1, κ isotype control (open histogram). Data shown is gated on lymphocytes.



Spectral signature of cFluor™ B532 from a Cytek® Aurora 5 laser system equipped with 355, 405, 561 and 640 nm lasers using CytekAssaySetting.

REFERENCES

1. Wang K, et al. 2012. Exp Hematol Oncol. 10.1186/2162-3619-1-36
2. Bradbury LE, et al. 1993. J Immunol. 151(6):2915-2927.
3. Nadler LM, et al. 1983. J Immunol. 131(1):244-250.

For Research Use Only. Not intended for use in diagnostic procedures.

*cFluor™ B532 is equivalent to CF® 503R manufactured and provided by Biotium, Inc. under an Agreement between Biotium and Cytek (LICENSEE). The manufacture, use, sale, offer for sale, or import of the product is covered by one or more of the patents or pending applications owned or licensed by Biotium. The purchase of this product includes a limited, non-transferable immunity from suit under the foregoing patent claims for using only this amount of product for the purchaser's own internal research. No right under any other patent claim, no right to perform any patented method, and no right to perform commercial services of any kind, including without limitation reporting the results of purchaser's activities for a fee or other commercial consideration, is conveyed expressly, by implication, or by estoppel.