

TECHNICAL DATA SHEET

violetFluor™ 450 Anti-Human CD19 (HIB19)

Catalog Number: 75-0199

PRODUCT INFORMATION

Contents: violetFluor™ 450 Anti-Human CD19 (HIB19)

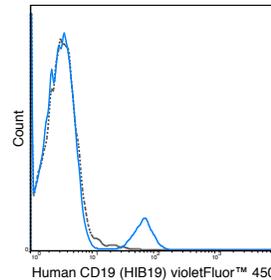
Isotype: Mouse IgG1, kappa

Concentration: 5 uL (0.5 ug)/test

Clone: HIB19

Reactivity: Human

Formulation: 10 mM NaH₂PO₄, 150 mM NaCl, 0.09% NaN₃,
0.1% gelatin, pH7.2



Human peripheral blood lymphocytes were stained with 5 uL (0.5 ug) violetFluor™ 450 Anti-Human CD19 (75-0199) (solid line) or 0.5 ug violetFluor™ 450 Mouse IgG1 isotype control.

DESCRIPTION

The HIB19 antibody reacts with human CD19, 95 kDa glycoprotein which acts as a co-receptor, along with CD21, CD81 and CD225, in support of the functional B cell receptor (BCR). This complex provides antigen-specific recognition and subsequent activation of B cells to proliferate and differentiate into antibody-secreting cells (plasma cells) or memory B cells, which are crucial for secondary antigen encounter. CD19 is a lineage-differentiation marker, as its expression is detectable at the earliest B cell stages, through development, and is finally lost upon transition to mature plasma cells. The HIB19 antibody is widely used as a phenotypic marker for CD19 expression on B cells, as well as on dendritic cell subsets.

PREPARATION & STORAGE

This monoclonal antibody was purified from tissue culture supernatant via affinity chromatography. The purified antibody was conjugated under optimal conditions, with unreacted dye removed from the preparation. It is recommended to store the product undiluted at 4°C, and protected from prolonged exposure to light. Do not freeze.

APPLICATION NOTES

This antibody preparation has been quality-tested for flow cytometry using mouse spleen cells, or an appropriate cell type (where indicated). The amount of antibody required for optimal staining of a cell sample should be determined empirically in your system.

violetFluor™ 450 dye is excited by the violet (405 nm) laser and has a peak emission of 450 nm. The most common band pass filters for this dye are 440/40 or 450/50. violetFluor™ 450 can be used as an alternative for Pacific Blue®, BD Horizon™ V450 or eFluor® 450.

REFERENCES

Kroenke MA, Eto D, Locci M, Cho M, Davidson T, Haddad EK, and Crotty S. 2012. *J. Immunol.* 188: 3734-3744. (Flow cytometry). So NSY, Ostrowski MA, and Gray-Owen SD. 2012. *J. Immunol.* 188: 4008-4022. (in vitro cell capture for microscopy). Zhang L, Yang N, Conejo-Garcia J-R, Katsaros D, Mohamed-Hadley A, Fracchioli S, Schlienger K, Toll A, Levine B, Rubin SC, and Coukos G. 2003. *Clin. Cancer Res.* 9: 264 – 272. (Immunohistochemistry). Hibe W, Dirnhofer S, Oberwasserlechner F, Eisterer W, Amman K, Schmid T, Hilbe G, Thaler J, and Woll E. 2003. *J. Clin. Pathol.* 56: 736-741. (Immunohistochemistry – frozen tissues).

NOTE: Please choose the appropriate format for each application. Citations are provided as a convenience to you; please consult Materials and Methods sections for additional details about the use of any product in these publications.

For Research Use Only.

Not for use in diagnostic or therapeutic procedures. Not for resale. Not for distribution without written consent. Tonbo Biosciences will not be held responsible for patent infringement or other violations that may occur with the use of our products. Tonbo Biosciences, Tonbo Biosciences Logo and all other trademarks are the property of Tonbo Biotechnologies Corporation. © 2013 Tonbo Biosciences.