

## Anti-Human CD19 BG Violet 450

Catalogue Number : 11211-40

RUO: For Research Use Only. Not for use in diagnostic procedures.

---

### Product Information

**Clone:** HIB19

**Format/Conjugate:** BG Violet 450

**Concentration:** 5 uL (0.5 ug)/test

**Reactivity:** Human

**Laser:** Violet (405nm)

**Peak Emission:** nm

**Peak Excitation:** nm

**Filter:**

**Brightness (1=dim,5=brightest):**

**Isotype:** Mouse IgG1, kappa

**Formulation:** Phosphate-buffered aqueous solution, ≤0.09% Sodium azide, may contain carrier protein/stabilizer, pH7.2.

**Storage:** Product should be kept at 2-8°C and protected from prolonged exposure to light.

**Applications:** FC

### Description

The HIB19 monoclonal antibody reacts with a human 95 kDa transmembrane glycoprotein known as CD19, which is expressed by B lymphocytes during all the developmental stages, except for the terminally differentiated plasma cells. CD19 is also expressed on follicular dendritic cells, and seems to ensure the regulation of B lymphocytes proliferation. CD19, CD21, CD81, MHC class II, and Leu13 can bind together and form a complex which associates with the B cell receptor (BCR) on the surface of B lymphocytes and facilitates the signal transduction.

BG Violet 450 conjugate is an alternative to the Pacific Blue, eFluor 450, or BD Horizon V450 dyes. It is excited by the violet (405 nm) laser, with a peak emission of 450nm.

### Preparation & Storage

The product should be stored undiluted at 4°C and should be protected from prolonged exposure to light. Do not freeze.

The monoclonal antibody was purified utilizing affinity chromatography and unreacted dye was removed from the product.

### Application Notes

The antibody has been analyzed for quality through the flow cytometric analysis of the relevant cell type. The antibody can be used at less than or equal to 5 µL per test. A test is the amount of antibody required to stain a cell sample in the final volume of 100 µL.

### References

1. Knapp W; (1989) Leucocyte typing IV: white cell differentiation antigens. Oxford University Press, 1989.
2. Schlossman, S., L. Bloumsell, et al. eds (1995). Leucocyte Typing V: White Cell Differentiation Antigens. Oxford University Press. New York
3. McMichael, A. J., Beverley, P. C. L., Cobbold, S., Crumpton, M. J., Gilks, W., Gotch, F. M., ... ; Waldman, H. (1987). Leukocyte typing III.; White Cell Differentiation Antigens, 733-786.