

## Anti-Human CD19 FITC

Catalogue Number : 11221-50

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

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### Product Information

**Clone:** HIB19

**Format/Conjugate:** FITC

**Concentration:** 5  $\mu$ L (1  $\mu$ g)/test

**Reactivity:** Human

**Laser:** Blue (488nm)

**Peak Emission:** 520nm

**Peak Excitation:** 494nm

**Filter:** 530/30

**Brightness (1=dim,5=brightest):** 3

**Isotype:** Mouse IgG1, kappa

**Formulation:** Phosphate-buffered aqueous solution,  $\leq$ 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 specifically reacts with human CD19, a 95kDA type 1 transmembrane glycoprotein also known as B4. It is expressed on all stages of B cell development except for final plasma cells and on follicular dendritic cells. CD19 plays a role in B cell proliferation, activation, and differentiation. It functions as a BCR co-receptor with CD21 and CD81.

### 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  $\mu$ L per test. A test is the amount of antibody required to stain a cell sample in the final volume of 100  $\mu$ L.

### References

1. 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.
2. Leucocyte typing IV: white cell differentiation antigens. Oxford University Press, 1989.
3. Bradbury, L. E., Goldmacher, V. S., ; Tedder, T. F. (1993). The CD19 signal transduction complex of B lymphocytes. Deletion of the CD19 cytoplasmic domain alters signal transduction but not complex formation with TAPA-1 and Leu 13.; The Journal of Immunology,; 151(6), 2915-2927.