

## Anti-Human CD20 Biotin

Catalog Number :02311-30

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

### Product Information

**Clone:** 2H7

**Format/Conjugate:** Biotin

**Concentration:** 0.5 mg/mL

**Reactivity:** Human

**Laser:** Not Applicable

**Peak Emission:** Not Applicable

**Peak Excitation:** Not Applicable

**Filter:** Not Applicable

**Brightness (1=dim,5=brightest):** Not Applicable

**Isotype:** Mouse IgG2b, 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 2H7 monoclonal antibody specifically reacts with human CD20, a 33-37kDA B-lymphocyte surface molecule. CD20 is an unglycosylated four-transmembrane phosphoprotein expressed by B cells in all stage of development, except the final plasma cells. It has been reported that the molecule is involved in B cell activation and has also been observed on a subset of circulating T lymphocytes.

### 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. For flow cytometric staining, the suggested use of this reagent is ≤0.25 ug per million cells in 100 µl volume. It is recommended that the reagent be titrated for optimal performance for each application.

### References

1. Leucocyte typing IV: white cell differentiation antigens. Oxford University Press, 1989.
2. Polyak, M. J., Deans, J. P. (2002). Alanine-170 and proline-172 are critical determinants for extracellular CD20 epitopes; heterogeneity in the fine specificity of CD20 monoclonal antibodies is defined by additional requirements imposed by both amino acid sequence and quaternary structure.; Blood,;99(9), 3256-3262.
3. Schlossman, S. F. (1995).; Leucocyte typing V: White cell differentiation antigens: Proceedings of the Fifth International Workshop and Conference, Held in Boston, USA 3-7 November, 1993. Oxford University Press.