

## Anti-Human CD20 PE

Catalogue Number : 02311-60

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

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### Product Information

**Clone:** 2H7

**Format/Conjugate:** PE

**Concentration:** 5 uL (0.06 ug)/test

**Reactivity:** Human

**Laser:** Blue (488nm), Yellow/Green (532-561nm)

**Peak Emission:** 578nm

**Peak Excitation:** 496nm

**Filter:** 585/40

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

**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. 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. 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.