

## Technical Data Sheet

### PE Anti-Human CD20

**Catalog Number:** 105603, 105604

**Size:** 25 tests, 100 tests

**Target Name:** CD20, MS4A-1, MS4A1

**Regulatory Status:** RUO

#### Product Details

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**Clone:** 2H7

**Application:** FC

**Reactivity:** Human

**Format:** PE

**Isotype:** Mouse IgG2b

**Antibody Type:** Monoclonal

**Formulation:** Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide and 0.2% (w/v) BSA

**Protein Concentration:** Supplied at a lot-specific concentration.

**Storage and Handling:** The antibody solution should be stored undiluted between 2°C and 8°C, and protected from prolonged exposure to light. Do not freeze.

**Recommended Usage:** For flow cytometric staining, it is recommended to use 5 µL of this reagent per 0.5-1.0 million cells in a 100 µL volume. Optimal reagent performance should be determined by titration for each specific application.

**Excitation Laser:** Blue Laser (488 nm) Green/Yellow laser (532/561nm)

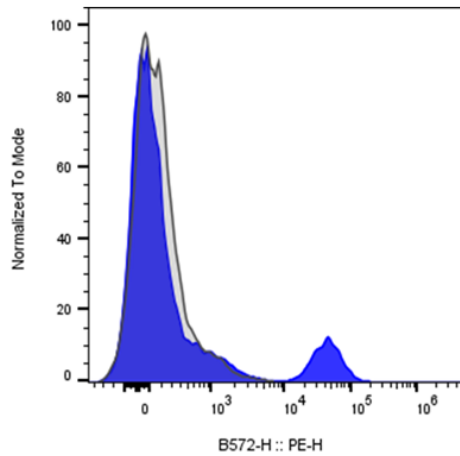
#### Background Information

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CD20 is a 33-37 kD, four transmembrane spanning protein, also known as B1 and Bp35. CD20 is expressed on pre-B-cells, resting and activated B cells (not plasma cells), some follicular dendritic cells, and at low levels on a T cell subset. CD20 is heavily phosphorylated on activated B cells and malignant B cells. Homo-oligomeric complexes of CD20 are thought to form Ca<sup>2+</sup> conductive ion channels in the plasma membrane of B cells. The CD20 molecule is involved in B-cell activation and is associated with various Src family kinases (Lyn, Lck, Fyn). It exists in a complex with MHC class I and II, CD53, CD81, and CD82. The epitope recognized by clone 2H7 has been mapped to the sequence YNCEPANPSEKNSPST, which lies in the large extracellular loop of human CD20.

#### Product Data

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Human peripheral blood lymphocytes stained with PE anti-human CD20 clone 2H7 (blue histogram) or an isotype control (gray histogram).