10320 Camino Santa Fe, Suite G
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Tel: 858.875.1900 Fax: 858.875.1999

violetFluor™ 450 Anti-Human CD19 (HIB19) Antibody

Catalog # ATB10350

Specification

violetFluor™ 450 Anti-Human CD19 (HIB19) Antibody - Product Information

Application	**FC**
Isotype	**Mouse IgG1, kappa**
Concentration	**5 uL (0.5 ug)/test**
Reactivity	**Human**
Formulation	**10 mM NaH2PO4, 150 mM NaCl, 0.09% NaN3, 0.1% gelatin, pH7.2**

violetFluor™ 450 Anti-Human CD19 (HIB19) Antibody - Additional Information

Gene ID	**930**
Gene Name	**CD19**

Alternative Name(s)
Leu-12, B4

Format
violetFluor™ 450

Preparation
This monoclonal antibody was purified from tissue culture supernatant via affinity chromatography. The purified antibody was conjugated under optimal conditions, with unreacted dye removed from the preparation. It is recommended to store the product undiluted at 4°C, and protected from prolonged exposure to light. Do not freeze.

Application Notes
This antibody preparation has been pre-titrated and quality-tested for flow cytometry using an appropriate cell type. The antibody has been diluted for use at 5 uL per test, defined as the amount of antibody that will stain a cell sample in a final volume of approximately 100 uL. The number of cells within a sample should be determined empirically, but typically ranges between 1x10e5 to 1x10e8 cells. violetFluor™ 450 dye is excited by the violet (405 nm) laser and has a peak emission of 450 nm. The most common band pass filters for this dye are 440/40 or 450/50. violetFluor™ 450 can be used as an alternative for Pacific Blue®, BD Horizon™ V450 or eFluor® 450.

Storage Conditions
2-8°C protected from light

violetFluor™ 450 Anti-Human CD19 (HIB19) Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot

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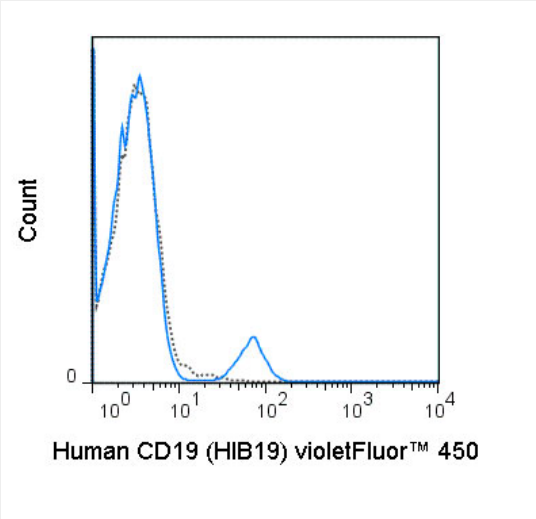
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

violetFluor™ 450 Anti-Human CD19 (HIB19) Antibody - Images



Human peripheral blood lymphocytes were stained with 5 uL (0.5 ug) violetFluor™450 Anti-Human CD19 (ATB10350) (solid line) or 0.5 ug violetFluor™450 Mouse IgG1 isotype control.

violetFluor™ 450 Anti-Human CD19 (HIB19) Antibody - Background

The HIB19 antibody reacts with human CD19, 95 kDa glycoprotein which acts as a co-receptor, along with CD21, CD81 and CD225, in support of the functional B cell receptor (BCR). This complex provides antigen-specific recognition and subsequent activation of B cells to proliferate and differentiate into antibody-secreting cells (plasma cells) or memory B cells, which are crucial for secondary antigen encounter. CD19 is a lineage-differentiation marker, as its expression is detectable at the earliest B cell stages, through development, and is finally lost upon transition to mature plasma cells.The HIB19 antibody is widely used as a phenotypic marker for CD19 expression on B cells, as well as on dendritic cell subsets.