

Anti-Human CD19 Antibody, Clone HIB19

Antibodies

Mouse monoclonal IgG1 antibody
against human, chimpanzee CD19,
unconjugated



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Catalog #60005

100 µg 0.5 mg/mL

FOR RESEARCH USE ONLY. NOT INTENDED FOR HUMAN OR ANIMAL DIAGNOSTIC OR THERAPEUTIC USES.

Product Description

The HIB19 antibody reacts with CD19, an ~95 kDa type 1 transmembrane glycoprotein expressed on the surface of B cells throughout all stages of development, from early pre-B cells to plasma cells. Expression is down-regulated but persists in terminally differentiated plasma cells. CD19 is also found on follicular dendritic cells. By associating with CD21 and CD81, CD19 functions as a co-receptor for the B cell receptor and is involved in B cell activation and differentiation. Activation of CD19 is accompanied by phosphorylation of the cytoplasmic domain, which promotes binding to kinases and the induction of intracellular signaling cascades. Mutations in CD19 can result in severe immunodeficiency syndromes.

| | |
|----------------------|---------------------------------|
| Target Antigen Name: | CD19 |
| Alternative Names: | B4 |
| Gene ID: | 930 |
| Species Reactivity: | Human, Chimpanzee |
| Host Species: | Mouse |
| Clonality: | Monoclonal |
| Clone: | HIB19 |
| Isotype: | IgG1, kappa |
| Immunogen: | Human CD19 purified from tonsil |
| Conjugate: | Unconjugated |

Applications

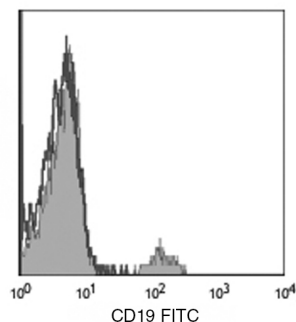
| | |
|-----------------------|---|
| Verified: | CellSep |
| Reported: | CyTOF®, FA, FC, IHC |
| Special Applications: | This antibody clone has been verified for purity assessments of cells isolated with EasySep™ kits, including EasySep™ Human CD19 Positive Selection Kit (Catalog #18054) and EasySep™ Human Whole Blood CD19 Positive Selection Kit (Catalog #18084); partial blocking may be observed. |

Abbreviations: CellSep: Cell separation; ChIP: Chromatin immunoprecipitation; FA: Functional assay; FC: Flow cytometry; ICC: Immunocytochemistry; IF: Immunofluorescence microscopy; IHC: Immunohistochemistry; IP: Immunoprecipitation; WB: Western blotting

Properties

| | |
|------------------------|--|
| Formulation: | Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide |
| Purification: | The antibody was purified by affinity chromatography. |
| Stability and Storage: | Product stable at 2 - 8°C when stored undiluted. Do not freeze. For product expiry date, please request a lot-specific Certificate of Analysis from techsupport@stemcell.com . |
| Directions for Use: | For flow cytometry the suggested use of this antibody is ≤ 0.5 µg per 1 x 10 ⁶ cells in 100 µL volume. It is recommended that the antibody be titrated for optimal performance for each application. |

Data



Flow cytometry analysis of human peripheral blood lymphocytes labeled with Anti-Human CD19 Antibody, Clone HIB19, followed by anti-mouse IgG, FITC (filled histogram) or a mouse IgG1, kappa isotype control antibody followed by anti-mouse IgG, FITC (open histogram).

Related Products

| PRODUCT NAME | CATALOG # | SIZE |
|---|-----------|-----------|
| Anti-Human CD19 Antibody, Clone HIB19 | 60005 | 100 µg |
| Anti-Human CD19 Antibody, Clone HIB19, PE | 60005PE | 100 tests |
| Anti-Human CD19 Antibody, Clone HIB19, PE | 60005PE.1 | 25 tests |
| Anti-Human CD19 Antibody, Clone HIB19, Alexa Fluor® 488 | 60005AD | 100 tests |

References

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11. Mei HE, et al. Rationale of anti-CD19 immunotherapy: an option to target autoreactive plasma cells in autoimmunity. Arthritis Res Ther 2012, 14 (Suppl 5): S1, 2012

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