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# Anti-CD20 Mouse mAb [18E92]

**Catalog No.: A32101**

## Basic Information

| | |
|---|---|
| Catalog No. (Cat.No.) | A32101 |
| Host species | Mouse |
| Reactivity | Human |
| Applications | IF,Flow Cyt |
| Synonyms | CD20,MS4A1,CD20,BPT |

## Product Information

| | |
|---|---|
| Target | CD20 |
| Molecular Weight(Calculated) | NA |
| Molecular Weight(Observed) | NA |
| Isotype | Mouse IgG2b/Kappa |
| Conjugation | NA |
| Concentration | Please check the information on the tube. |
| Clonality | Monoclonal |
| Clone No. | 18E92 |
| RRID | NA |
| Storage buffer | PBS (pH 7.2-7.4) |
| Storage | Stored at -20°C for 1 year. Avoid repeated freeze / thaw cycles. |
| Shipped at conditions | Frozen |
| Form | Liquid |

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## Product Usage Information

| Application | Dilution |
|---|---|
| IF | 1:200-1:1000 |
| Flow Cyt | 1 μg/$10^6$ cells |

## Target Information

| | |
|---|---|
| Protein Name | B-lymphocyte antigen CD20 |
| Gene Name | *MS4A1* |
| Domain | NA |
| Background | CD20 (B-lymphocyte surface antigen CD20, MS4A1) is a MS4A-family transmembrane protein that modulates B-lymphocyte activation and proliferation. CD20 is expressed from pre-B cell to mature B-cell stages and down-regulated upon plasma cell differentiation. Located on plasma membrane, CD20 modulates calcium flux and participates in B-cell receptor signaling network to shape B-cell activation and cell-cycle progression. Absent from hematopoietic stem cells, CD20 targeting depletes mature B-cells while sparing B-cell progenitors. CD20 represents a well-validated therapeutic target for B-cell lymphoma and autoimmune diseases. It is also widely used as biomarker for flow cytometry and IHC in B-cell neoplasm classification and B-cell status evaluation in autoimmune disorders. |