abcam

**ab69774**

# FITC Anti-CD52 antibody [HI186]

Anti-CD52 antibody [HI186] conjugated to FITC - suitable for flow cytometry, and reacts with human samples. Clone [HI186] is a mouse monoclonal antibody cited in 10 publications.

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## Key facts

| | |
|---|---|
| **Isotype** | IgG2b |
| **Host species** | Mouse |
| **Conjugation** | FITC |
| **Excitation/Emission** | Ex: 495nm, Em: 519nm |
| **Storage buffer** | pH: 7.4 Preservative: 0.097% Sodium azide Constituents: PBS, 0.2% BSA |
| **Form** | Liquid |
| **Clonality** | Monoclonal |
| **Immunogen** | Tissue preparation containing CD52 protein. The exact immunogen used to generate this antibody is proprietary information. Database link P31358 |
| **Clone number** | HI186 |
| **Purification technique** | Size-exclusion chromatography |

## Reactivity data

## Flow Cyt

### Tested

| | |
|---|---|
| **Species** | Human |
| **Dilution info** | 5 µL for $10^6$ Cells |

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| **Notes** | ab91368 - Mouse monoclonal IgG2b, is suitable for use as an isotype control with this antibody. |

## Target data

See full target information CD52

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|---|---|
| **Function** | May play a role in carrying and orienting carbohydrate, as well as having a more specific role. |

## Storage

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|---|---|
| **Shipped at conditions** | Blue Ice |
| **Appropriate short-term storage conditions** | +4°C |
| **Appropriate long-term storage conditions** | +4°C |

## Notes

The purified antibody is conjugated with Fluorescein isothiocyanate (FITC) under optimum conditions. The reagent is free of unconjugated FITC.

## Supplementary info

This supplementary information is collated from multiple sources and compiled automatically.

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|---|---|
| **Activity summary** | CD52 also known as Campath-1 antigen is a glycoprotein that weighs approximately 12 kDa. It is mainly expressed on the surface of lymphocytes monocytes macrophages and some epithelial cells. This protein is also present on T and B cells making it a reliable marker for these immune cells. CD52's role is primarily in cell adhesion and signaling. The anti-CD52 antibody alemtuzumab targets this antigen specifically indicating its utility in clinical applications. |
| **Biological function summary** | CD52 plays an essential role in immune response regulation. It is not part of a larger protein complex but interacts dynamically with cell membranes to mediate immune cell activity. By acting as a co-stimulatory molecule for T cells CD52 influences lymphocyte activation and proliferation. This activity becomes significant in modulating immune responses showcasing its importance in immunological pathways. |
| **Pathways** | CD52 heavily influences T cell receptor signaling and cytokine production pathways. It interacts with proteins in these pathways to facilitate effective immune surveillance and response. CD52's engagement in these pathways |

| | |
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| | highlights its collaboration with proteins such as CD3 and CD28 which assist in T cell activation and adaptive immunity. Such interactions highlight CD52's role in maintaining immune homeostasis. |
| **Associated diseases and disorders** | CD52 has substantial relevance in autoimmune diseases and hematological cancers. Multiple sclerosis is one such autoimmune disorder where aberrant CD52 activity affects disease progression. Alemtuzumab an anti-CD52 monoclonal antibody is often used in treatment emphasizing CD52's clinical significance. In hematological malignancies like chronic lymphocytic leukemia CD52 facilitates abnormal lymphocyte survival and proliferation. CD52's interplay with other cell surface proteins such as CD19 further delineates its role in disease pathology and targeting strategies. |

## Product promise

**Tested**

We have tested this species and application combination and it works. It is covered by our product promise.

**Expected**

We have not tested this specific species and application combination in-house, but expect it will work. It is covered by our product promise.

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This species and application combination has not been tested, but we predict it will work based on strong homology. However, this combination is not covered by our product promise.

**Not recommended**

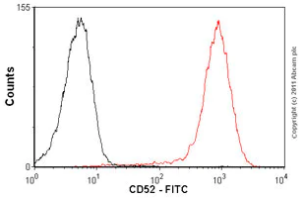
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## 2 product images

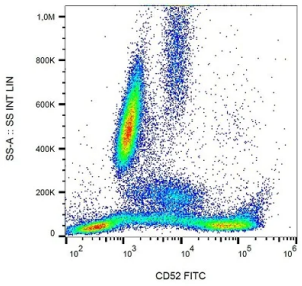



### Flow Cytometry - FITC Anti-CD52 antibody [HI186] (ab69774)

CD52 Flow Cytometry staining using mouse Anti-CD52 antibody

Overlay histogram showing peripheral blood lymphocytes stained with ab69774 (red line). The cells incubated in 1x PBS / 10% normal goat serum / 0.3M glycine to block non-specific protein-protein interactions. The cells were then incubated with the antibody (ab69774, 0.06 µg/1x$10^6$

cells) for 30 min at 22°C. Isotype control antibody (black line) was mouse IgG2b FITC (0.6 µg/1x$10^6$ cells ) for 30 min at 22°C. Acquisition of >5,000 events was performed.




## Flow Cytometry - FITC Anti-CD52 antibody [HI186] (ab69774)

CD52 Flow Cytometry staining using mouse Anti-CD52 antibody

Surface staining of CD52 in human peripheral blood with ab69774

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