abcam

Product datasheet

# Anti-CD3 antibody [G4.18] ab95507

2 References 1 Image

## Overview

| | |
|---|---|
| **Product name** | Anti-CD3 antibody [G4.18] |
| **Description** | Mouse monoclonal [G4.18] to CD3 |
| **Host species** | Mouse |
| **Tested applications** | **Suitable for:** Flow Cyt, IP, WB |
| **Species reactivity** | **Reacts with:** Rat |
| **Immunogen** | PHA-stimulated Rat lymph node and spleen cells. |
| **Positive control** | Rat splenocytes |

## Properties

| | |
|---|---|
| **Form** | Liquid |
| **Storage instructions** | Shipped at 4°C. Store at +4°C short term (1-2 weeks). Store at -20°C or -80°C. Avoid freeze / thaw cycle. |
| **Storage buffer** | Preservative: 0.09% Sodium Azide<br>Constituents: PBS, 150mM Sodium chloride, pH 7.2 |
| **Purity** | Protein G purified |
| **Clonality** | Monoclonal |
| **Clone number** | G4.18 |
| **Isotype** | IgG3 |
| **Light chain type** | kappa |

## Applications

**The Abpromise guarantee** Our **Abpromise guarantee** covers the use of ab95507 in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

| Application | Abreviews | Notes |
|---|---|---|

| Application | Abreviews | Notes |
|---|---|---|
| **Flow Cyt** | | Use 0.25-0.5µg for $10^{5-8}$ cells.<br>Staining the cell sample in a final volume of 100 µL is recommended. |
| **IP** | | Use at an assay dependent concentration. |
| **WB** | | Use at an assay dependent concentration. Predicted molecular weight: 20 kDa. |

## Target

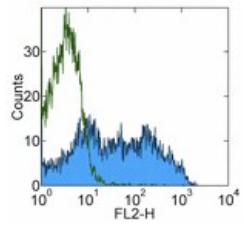
**Function** The CD3 complex mediates signal transduction.

**Involvement in disease** Defects in CD3D are a cause of severe combined immunodeficiency autosomal recessive T-cell-negative/B-cell-positive/NK-cell-positive (T(-)/B(+)/NK(+) SCID) [MIM:608971]. A form of severe combined immunodeficiency (SCID), a genetically and clinically heterogeneous group of rare congenital disorders characterized by impairment of both humoral and cell-mediated immunity, leukopenia, and low or absent antibody levels. Patients present in infancy recurrent, persistent infections by opportunistic organisms. The common characteristic of all types of SCID is absence of T-cell-mediated cellular immunity due to a defect in T-cell development.

**Sequence similarities** Contains 1 ITAM domain.

**Cellular localization** Membrane.

## Images




Flow Cytometry - Anti-CD3 antibody [G4.18] (ab95507)

Flow cytometry staining of rat splenocytes with 0.25 µg of Mouse IgG3 Isotype Control Purified (open histogram) or 0.25 µg of ab95507 (filled histogram) followed by Anti-Mouse IgG Biotin and Streptavidin PE. Cells in the lymphocyte gate were used for analysis.

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