

### 30-2643: Anti-Mouse CD16/CD32 FITC (Clone : 93)

|                                |  |
|--------------------------------|--|
| <b>Clonality :</b>             | Monoclonal   |
| <b>Clone Name :</b>            | 93   |
| <b>Application :</b>           | FACS   |
| <b>Reactivity :</b>            | Mouse  |
| <b>Conjugate :</b>             | FITC   |
| <b>Gene :</b>                  | Fcgr2, Fcgr3                                       |
| <b>Gene ID :</b>               | 14130  |
| <b>Alternative Name :</b>      | CD16, CD32, FcgammaRIII, FCgammaRII, FCGR3, FCGR2, |
| <b>Isotype :</b>               | Rat IgG2a lambda                                   |
| <b>Immunogen Information :</b> | Murine pre-B cells                                 |

#### Description

CD16 (FcgammaRIII) is a 50-65 kDa glycoprotein serving as a low affinity IgG receptor. Unlike human, the murine protein is expressed only as a transmembrane isoform. Also CD32 (FcgammaRII) is a low affinity receptor for IgG, but its affinity is lower than that of CD16. These receptors are expressed on monocytes/macrophages, NK cells, granulocytes, mast cells, dendritic cells, and B cells. Their role is to mediate adaptive immune responses through binding the antibody-antigen immunocomplexes, but their effect on the particular cell differs according to the cell type.

Specificity : The rat monoclonal antibody 93 recognizes a common extracellular epitope of murine CD16 (FcgammaRIII) and CD32 (FcgammaRII), the low affinity receptors for IgG.

#### Product Info

|                            |   |
|----------------------------|---|
| <b>Amount :</b>            | 0.1 mg  |
| <b>Purification :</b>      | Purified by protein-A affinity chromatography   |
| <b>Content :</b>           | 0.5 mg/ml<br>Formulation : Phosphate buffered saline (PBS) solution with 15 mM sodium azide |
| <b>Storage condition :</b> | Store at 2-8°C. Do not freeze.  |

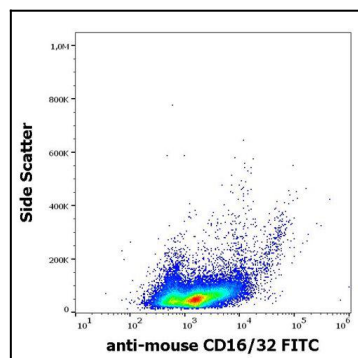


Figure 1 : Flow cytometry surface staining pattern of murine splenocyte suspension stained using anti-mouse CD16/32 (93) FITC antibody (concentration in sample 15 µg/ml).

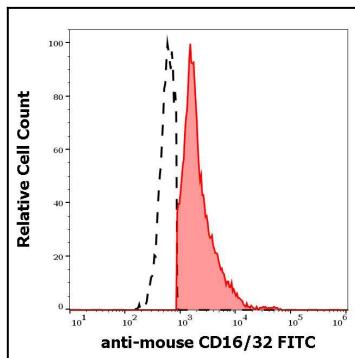


Figure 2 : Separation of murine CD16/32 positive cells (red-filled) from murine CD16/32 negative cells (black-dashed) in flow cytometry analysis (surface staining) of murine splenocyte suspension stained using anti-mouse CD16/32 (93) FITC antibody (concentration in sample 15 µg/ml).