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## 30-2848: Anti-Human CD2 FITC MAb (Clone: TS1/8)

Clonality: Monoclonal
Clone Name: TS1/8
Application: FACS
Reactivity: Human
Conjugate: FITC

Gene : CD2
Gene ID : 914
Uniprot ID : P06729

Alternative Name: T11, LFA-2, SRBC

Isotype: Mouse IgG1 kappa

Immunogen Information: Cytotoxic T lymphocytes

## **Description**

Specificity: The mouse monoclonal antibody TS1/8 recognizes an extracellular epitope of CD2, a 50 kDa glycoprotein present on the human peripheral blood T lymphocytes and NK cells; also expressed by all thymocytes.

CD2 belongs to T lymphocyte glycoproteins of immunoglobulin superfamily. Its interaction with CD58 stabilizes adhesion between T cells and antigen presenting or target cells. Relatively low affinity of CD2 to CD58 (as measured in solution) is compensated within the two-dimensional cell-cell interface to provide tight adhesion. Moreover, T cell activation induces increased CD2 expression and its lateral mobility, making easier contact between CD2 and CD58. Subsequently, T cell activation causes fixation of CD58-CD2 at sites of cell-cell contact, thereby strengthening intercellular adhesion. CD2 deficiency reduces intestinal inflammation and helps to control infection.

## **Product Info**

Amount: 100 tests

Purified antibody is conjugated with fluorescein isothiocyanate (FITC) under optimum conditions

**Purification:** and unconjugated antibody and free fluorochrome are removed by size-exclusion

chromatography.

**Content:** Stabilizing phosphate buffered saline (PBS), pH 7.4, 15 mM sodium azide **Storage condition:** Store at 2-8°C. Protect from prolonged exposure to light. Do not freeze.

## **Application Note**

Flow cytometry: The reagent is designed for analysis of human blood cells using 4  $\mu$ l reagent / 100  $\mu$ l of whole blood or 10<sup>6</sup> cells in a suspension. The content of a vial (0.4 ml) is sufficient for 100 tests.



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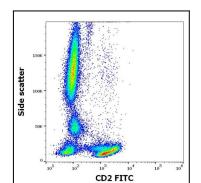


Figure 1: Flow cytometry surface staining pattern of human peripheral whole blood stained using anti-human CD2 (TS1/8) FITC antibody (4  $\hat{l}$ ½I reagent / 100  $\hat{l}$ ½I of peripheral whole blood).

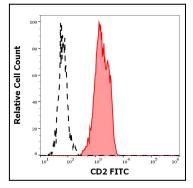


Figure 2: Separation of human CD2 positive lymphocytes (red-filled) from CD2 negative lymphocytes (black-dashed) in flow cytometry analysis (surface staining) of human peripheral whole blood stained using anti-human CD2 (TS1/8) FITC antibody (4  $\hat{l}\frac{1}{4}$  reagent / 100  $\hat{l}\frac{1}{4}$  of peripheral whole blood).