

# Human CD38 Antibody

PE

Monoclonal Antibody

## Product Information

**Product No.:** C547

**Clone:** OKT10

**RRID:** AB\_2893576

**Isotype:** Mouse IgG1

**Storage:** Sterile 2-8°C

## Product Description

### Specificity:

Clone OKT10 recognizes human CD38.

### Antigen Distribution:

CD38 is present on the surface of immune cells such as CD4+, CD8+, B lymphocytes, natural killer cells, mature lymphocytes, and mature lymphoplasmacytic cells.

### Background:

CD38 is a 45kD type II transmembrane glycoprotein that plays a role in the regulation of intracellular Ca<sup>2+</sup> by synthesizing and hydrolyzing an intracellular calcium ion mobilizing messenger. CD38 has both extracellular and intracellular functions as indicated by the release of soluble protein and the ability of membrane-bound protein to become internalized. The functional molecule is a dimer that contains the catalytic site in the central portion, and is involved in both extracellular and intracellular functions. CD38 plays a role in cell adhesion, signal transduction and calcium signaling. CD38 has been used as a biomarker to measure the progress of a chronic lymphocytic leukemia in patients. Because CD38 is expressed on mature lymphocytes and lymphoplasmacytic cells, OKT10 can be used to study final B cell maturation. OKT10 reactivity with CD38 occurs in an inversely proportional relationship to the occurrence of Ia-like antigenic expression. Hence, these two antigens can be used as reciprocal complementary reactants for the study of mature B cell malignancies, such as CLL, multiple myeloma, and Waldenström malignancy.

### Known Reactivity Species:

Rhesus Monkey, Human

### Format:

R-phycoerythrin (PE)

### Formulation

This R-phycoerythrin (R-PE) conjugate is formulated in 0.01 M phosphate buffered saline (150 mM NaCl) PBS pH 7.4, 1% BSA and 0.09% sodium azide as a preservative.

### Storage and Stability

This R-phycoerythrin (R-PE) conjugate is stable when stored at 2-8°C. **Do not freeze.**

### Applications

**Applications and Recommended Usage (Quality Tested By Leinco):**

FC

### Country of Origin

USA