



Mouse Anti-Human CD38 Monoclonal Antibody, clone OKT10 [Functional Grade] (CABT-Z506M)

This product is for research use only and is not intended for diagnostic use.

PRODUCT INFORMATION

Immunogen	Human CD38
Isotype	IgG1
Source/Host	Mouse
Species Reactivity	Human, Monkey
Clone	OKT10
Purification	Protein A or G purified
Conjugate	Functional Grade
Applications	FC
Format	Liquid
Concentration	Lot specific
Size	1 mg
Buffer	0.01 M phosphate buffered saline (150 mM NaCl) PBS, pH 7.2 - 7.4. Endotoxin Level < 0.5 EU/mg as determined by the LAL method.
Preservative	None
Storage	Store sterile as received at 2-8°C for up to one month. For longer term storage, aseptically aliquot in working volumes without diluting and store at -80°C. Avoid Repeated Freeze Thaw

Cycles.

Ship

Wet ice

BACKGROUND

Introduction

CD38 is a 45kD type II transmembrane glycoprotein that plays a role in the regulation of intracellular Ca^{2+} 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.

Keywords

CD38;CD38 molecule;T10;ADP-ribosyl cyclase 1;ADP-ribosyl cyclase/cyclic ADP-ribose hydrolase;CD38 antigen

GENE INFORMATION

Gene Name

CD38

Entrez Gene ID

[952](#)

UniProt ID

[P28907](#)