



# 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

<b>Immunogen</b>	Human CD38
<b>Isotype</b>	IgG1
<b>Source/Host</b>	Mouse
<b>Species Reactivity</b>	Human, Monkey
<b>Clone</b>	OKT10
<b>Purification</b>	Protein A or G purified
<b>Conjugate</b>	Functional Grade
<b>Applications</b>	FC
<b>Format</b>	Liquid
<b>Concentration</b>	Lot specific
<b>Size</b>	1 mg
<b>Buffer</b>	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.
<b>Preservative</b>	None
<b>Storage</b>	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.

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**Ship** Wet ice

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## BACKGROUND

**Introduction**

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.

**Keywords**

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

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## GENE INFORMATION

**Gene Name** CD38

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**Entrez Gene ID** [952](#)

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**UniProt ID** [P28907](#)

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