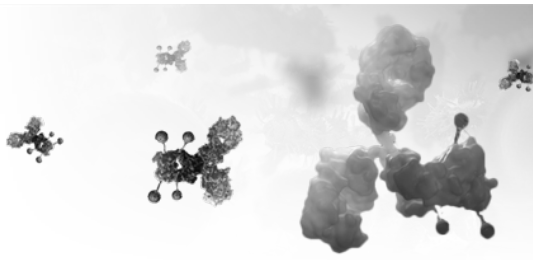

# Mouse Anti-Human CD38 Monoclonal Antibody, clone PLU 21 [Functional Grade] (CABT-Z558M)

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

## PRODUCT INFORMATION

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| **Product Overview** | This antibody is the corresponding clones of hybridoma CSC-H0648. |
| **Immunogen** | Human CD38 |
| **Isotype** | IgG1 |
| **Source/Host** | Mouse |
| **Species Reactivity** | Human, Monkey |
| **Clone** | PLU 21 |
| **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 |

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| **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

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| **Introduction** | CD38 is a 45kD type II transmembrane glycoprotein that plays a role in the regulation of intracellular Ca2+ 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 Waldenstr?m malignancy. |
| **Keywords** | CD38;CD38 molecule;T10;ADP-ribosyl cyclase 1;ADP-ribosyl cyclase/cyclic ADP-ribose hydrolase;CD38 antigen |

# GENE INFORMATION

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|---|---|
| **Gene Name** | CD38 |
| **Entrez Gene ID** | 952 |
| **UniProt ID** | P28907 |

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