

## Anti-Mouse CD38 SAFIRE Purified

Catalog Number :10412-25

RUO: For Research Use Only. Not for use in diagnostic procedures.

### Product Information

**Clone:** 90

**Format/Conjugate:** SAFIRE Purified

**Concentration:** 1 mg/mL

**Reactivity:** Mouse

**Laser:** Not Applicable

**Peak Emission:** Not Applicable

**Peak Excitation:** Not Applicable

**Filter:** Not Applicable

**Brightness (1=dim,5=brightest):** Not Applicable

**Isotype:** Rat IgG2a, kappa

**Formulation:** Phosphate-buffered aqueous solution, pH7.2.

**Storage:** Product should be kept at 2-8°C.

**Applications:** FC, FA

### Description

The 90 monoclonal antibody specifically bind to mouse CD38, a type II transmembrane glycoprotein. CD38 is expressed on activated T cells, plasma cells, monocytes, and macrophages. In the mouse as opposed to the human, CD38 expression is downregulated on mouse germinal center B cells and plasma cells. CD38 displays cyclase and hydrolase enzymatic activity and is involved in lymphocyte adhesion, activation, and cell signaling. Its ligand is CD31.

### Preparation & Storage

The product should be stored undiluted at 4°C. Do not freeze. The monoclonal antibody was purified utilizing affinitychromatography. The endotoxin level is determined by LAL test to be less than 0.01 EU/μg of the protein.

### Application Notes

The antibody has been analyzed for quality through the flow cytometric analysis of the relevant cell type. It is recommended that the reagent be titrated for optimal performance for each application.

### References

- 1.Oliver, A. M., Martin, F., Kearney, J. F. (1997). Mouse CD38 is down-regulated on germinal center B cells and mature plasma cells.;The Journal of Immunology,;158(3), 1108-1115.
2. Bean, A. G., Godfrey, D. I., Ferlin, W. G., Santos-Argumedo, L., Parkhouse, R. M. E., Howard, M. C., Zlotnik, A. (1995). CD38 expression on mouse T cells: CD38 defines functionally distinct subsets of αβ TCR+ CD4- CD8- thymocytes.;International immunology,;7(2), 213-221.
3. Lund, F., Solvason, N., Grimaldi, J. C., Michael, R., Parkhouse, E., Howard, M. (1995). Murine CD38: an immunoregulatory ectoenzyme.;Immunology today,16(10), 469-473.