

Anti-Human CD38 APC

Catalog Number :10411-80

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

Product Information

Clone: HIT2

Format/Conjugate: APC

Concentration: 5 uL (0.25 ug)/test

Reactivity: Human

Laser: Red (635 -655nm)

Peak Emission: 660nm

Peak Excitation: 650nm

Filter: 660/20

Brightness (1=dim,5=brightest): 5

Isotype: Mouse IgG1, kappa

Formulation: Phosphate-buffered aqueous solution, ≤0.09% Sodium azide, may contain carrier protein/stabilizer, pH7.2.

Storage: Product should be kept at 2-8°C and protected from prolonged exposure to light.

Applications: FC

Description

The HIT2 monoclonal antibody specifically bind to human CD38, a 45kda type II transmembrane glycoprotein. CD38 is expressed on activated T cells, plasma cells, monocytes, macrophages, dendritic cells, and thymocytes. 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 and should be protected from prolonged exposure to light. Do not freeze. The monoclonal antibody was purified utilizing affinity chromatography and unreacted dye was removed from the product.

Application Notes

The antibody has been analyzed for quality through the flow cytometric analysis of the relevant cell type. The antibody can be used at less than or equal to 5 µL per test. A test is the amount of antibody required to stain a cell sample in the final volume of 100 µL.

References

1. Deaglio, S., Morra, M., Mallone, R., Ausiello, C. M., Prager, E., Garbarino, G., ... Malavasi, F. (1998). Human CD38 (ADP-ribosyl cyclase) is a counter-receptor of CD31, an Ig superfamily member.; The Journal of Immunology, 160(1), 395-402.
2. McMichael, A. J. (1987).; Leucocyte typing III: white cell differentiation antigens. Oxford University Press, USA.
3. HORENSTEIN, A., STOCKINGER, H., Imhof, B., MALAVASI, F. (1998). CD38 binding to human myeloid cells is mediated by mouse and human CD31. Biochem. J.; 330, 1129-1135.