

TECHNICAL DATA SHEET

# APC Anti-Human CD38 (HIT2)

Catalog Number: 20-0389

## PRODUCT INFORMATION

**Contents:** APC Anti-Human CD38 (HIT2)

**Isotype:** Mouse IgG1, kappa

**Concentration:** 5  $\mu$ L (0.25  $\mu$ g)/test

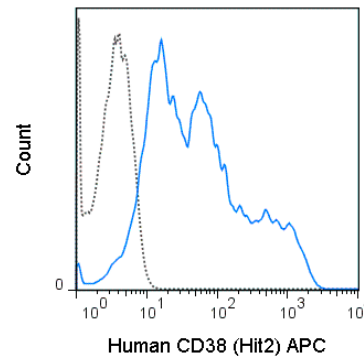
**Clone:** HIT2

**Reactivity:** Human

**Use By:** 12 months from date of receipt

**Storage Conditions:** 2-8°C protected from light

**Formulation:** 10 mM NaH<sub>2</sub>PO<sub>4</sub>, 150 mM NaCl, 0.09% NaN<sub>3</sub>, 0.1% gelatin, pH7.2



Human peripheral blood lymphocytes were stained with 5  $\mu$ L (0.25  $\mu$ g) APC Anti-Human CD38 (20-0389) (solid line) or 0.25  $\mu$ g APC Mouse IgG1 isotype control (dashed line).

## DESCRIPTION

The HIT2 antibody is specific for human CD38, a 45 kD type II transmembrane glycoprotein expressed on thymocytes, activated T and B cells, and monocytes as well as other non-hematopoietic cells. CD38 is an ectoenzyme that functions to catalyze the synthesis and hydrolysis of cyclic ADP-ribose and is involved in cell signaling, regulating cell adhesion, and activation. Additionally, CD38 has been shown to be a prognostic marker for some leukemias and other diseases.

## PREPARATION & STORAGE

This monoclonal antibody was purified from tissue culture supernatant via affinity chromatography. The purified antibody was conjugated under optimal conditions, with unreacted dye removed from the preparation. It is recommended to store the product undiluted at 4°C, and protected from prolonged exposure to light. Do not freeze.

## APPLICATION NOTES

This antibody preparation has been pre-titrated and quality-tested for flow cytometry using an appropriate cell type. The antibody has been diluted for use at 5  $\mu$ L per test, defined as the amount of antibody that will stain a cell sample in a final volume of approximately 100  $\mu$ L. The number of cells within a sample should be determined empirically, but typically ranges between 1x10<sup>5</sup> to 1x10<sup>8</sup> cells.

## REFERENCES

- Dianzani U, and Malavasi F. 1995. Crit. Rev. Immunol. 15(2):167-200.  
 Mehta K, Shahid U, and Malavasi F. Oct. 1996. FASEB J. 10(12):1408-1417.  
 Ferrero E, and Malavas F. Feb. 1999. J. Leukoc. Biol. 65(2):151-161.  
 Matrai Z. Feb. 2005. Hematology. 10(1):39-46.

Tonbo Biosciences tests all antibodies by flow cytometry. Citations are provided as a resource for additional applications that have not been validated by Tonbo Biosciences. Please choose the appropriate format for each application and consult Materials and Methods sections for additional details about the use of any product in these publications.

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