# **Technical Data Sheet**

# PE Mouse Anti-Human CD38

#### **Product Information**

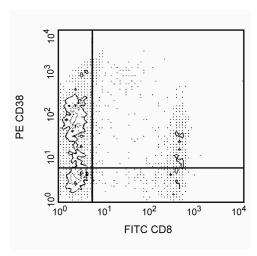
560981 **Material Number:** 25 tests Size: 20 µl Vol. per Test: HIT2 Clone: Isotype: Mouse IgG1, κ Reactivity: QC Testing: Human

Workshop:

Aqueous buffered solution containing BSA and ≤0.09% sodium azide. Storage Buffer:

#### Description

The HIT2 monoclonal antibody specifically binds to CD38. CD38 is a 45 kDa type II single-chain transmembrane glycoprotein present on thymocytes, activated T cells and terminally differentiated B cells (plasma cells). Other reactive cells include monocytes, macrophages, dendritic cells and some epithelial cells. The CD38 antigen acts as an ectoenzyme that catalyzes the synthesis and hydrolysis of a Ca+++ mobilizing agent, cyclic ADP-ribose. This intracellular calcium plays an important role in cell signalling pathways. Reports describe CD38 as participating in adhesion with CD31, immunoregulatory functions involving signal transduction leading to cell growth, apoptosis, and differentiation.



Profile of peripheral blood lymphocytes analyzed on a FACScan (BDIS, San Jose, CA)

#### **Preparation and Storage**

The monoclonal antibody was purified from tissue culture supernatant or ascites by affinity chromatography.

The antibody was conjugated with R-PE under optimum conditions, and unconjugated antibody and free PE were removed.

Store undiluted at 4°C and protected from prolonged exposure to light. Do not freeze.

### **Application Notes**

Application

Flow cytometry Routinely Tested

## **Suggested Companion Products**

Catalog Number Size Clone PE Mouse IgG1, κ Isotype Control MOPC-21 555749 100 tests

#### **Product Notices**

- 1. This reagent has been pre-diluted for use at the recommended Volume per Test. We typically use 1 × 10<sup>6</sup> cells in a 100-μl experimental sample (a test).
- Since applications vary, each investigator should titrate the reagent to obtain optimal results. 2.
- Please refer to www.bdbiosciences.com/pharmingen/protocols for technical protocols.

# **BD Biosciences**

bdbiosciences.com

**United States** 32.53.720.550 877.232.8995 888.268.5430 0120.8555.90 65.6861.0633 0800.771.7157

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- 4. For fluorochrome spectra and suitable instrument settings, please refer to our Fluorochrome Web Page at www.bdbiosciences.com/colors.
- 5. Caution: Sodium azide yields highly toxic hydrazoic acid under acidic conditions. Dilute azide compounds in running water before discarding to avoid accumulation of potentially explosive deposits in plumbing.
- 6. Source of all serum proteins is from USDA inspected abattoirs located in the United States.

#### References

McMichael AJ, Beverly PCL, Gilks W, et al, ed. Leukocyte Typing III: White Cell Differentiation Antigens. New York: Oxford University Press; 1987. (Clone-specific)

Schlossman SF, Boumsell L, Gilks W, et al, ed. Leukocyte Typing V: White Cell Differentiation Antigens. New York: Oxford University Press; 1995. (Biology)

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