## **Product Data Sheet**

## **Biotin anti-human CD38**

Catalog # / Size: 2117590 / 100 µg

> HIT2 Clone:

Isotype: Mouse IgG1, κ

Reactivity: Human

**Preparation:** The antibody was purified by affinity

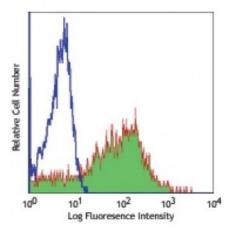
chromatography, and conjugated with biotin under optimal conditions. The solution is free of unconjugated biotin.

Formulation: Phosphate-buffered solution, pH 7.2,

containing 0.09% sodium azide.

Workshop Number: III 155

**Concentration:** 0.5



Human peripheral blood lymphocytes stained with

biotinylated HIT2, followed by Sav-

## **Applications:**

**Applications:** Flow Cytometry, Immunohistochemistry

Recommended

Usage:

Each lot of this antibody is quality control tested by immunofluorescent staining with flow cytometric analysis. For flow cytometric staining, the suggested use of

this reagent is ≤0.5 microg per million cells in 100 microL volume. It is recommended that the reagent be titrated for optimal performance for each

application.

**Application** 

Notes:

Additional reported applications (for the relevant formats) include:

immunohistochemical staining of acetone-fixed frozen tissue sections.<sup>6</sup>

**Application References:**  1. Kishimoto T, et al. Eds. 1997. Leucocyte Typing VI. Garland Publishing Inc.

London.

2. Dieu M. 1998. J. Exp. Med. 188:373.

3. Esser M, et al. 2001. J. Virol. 75:6173.

4. Jeannin P, et al. 1999. J. Immunol. 162:2044.

5. Kapsogeorgou EK, et al. 2001. J. Immunol. 166:3107.

6. van der Voort R, et al. 1997. J. Exp. Med. 185:2121. (IHC)

7. Bende RJ, et al. 2003. Am. J. Pathol. 162:105.

8. Lehner M, et al. 2008. J. Leukoc. Biol. 83:883. PubMed

9. Yoshino N, et al. 2000. Exp. Anim. (Tokyo) 49:97. (FC)

**Description:** CD38 is a 45 kD type II transmembrane glycoprotein also known as T10. It is an

> ADP-ribosyl hydrolase expressed at variable levels on hematopoietic cells and in some non-hematopoietic tissues (such as brain, muscles, and kidney). In humans, it is expressed at high levels on plasma cells and activated T and B cells. By functioning as both a cyclase and a hydrolase, CD38 mediates lymphocyte

activation, adhesion, and the metabolism of cADPR and NAADP. CD31 is the

ligand of CD38.

**Antigen** 

1. Ferrero E, et al. 1999. J. Leukoc. Biol. 65:151.

2. Lund F, et al. 1995. Immunol. Today 16:469. References: