Purified anti-human CD317 (BST2, Tetherin)

Catalog # / Size: 2342010 / 100 μg

2342005 / 25 μg

Clone: RS38E

Isotype: Mouse IgG1, κ

Reactivity: Human

Preparation: The antibody was purified by affinity

chromatography.

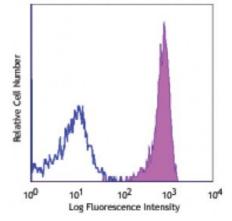
Formulation: Phosphate-buffered solution, pH 7.2,

containing 0.09% sodium azide.

Workshop

Number:

Concentration: 0.5



Human peripheral blood monocytes stained with purified RS38E conjugated with APC

Applications:

Applications: Flow Cytometry

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 \leq 2.0 microg per million cells in 100 microL volume. It is recommended that the reagent be titrated for optimal performance for each

application.

Application

Notes:

This product is manufactured and sold under a license and covered by a number of issued patents. Users who intend to file a patent relating to the use of this product, or who intend to develop therapeutic use of this antibody, are required to report to BioLegend in advance.

Application

1. Ishikawa J, et al. 1995. Genomics 26:527.

References:

2. Miyagi E, et al. 2011. J. Virol. 85:11981. PubMed

3. Yokoyama T, *et al.* 2013. *Int. J. Cancer*. 132: 472. (FC) <u>PubMed</u>

Description:

CD317, also known as BST2, Tetherin, and HM1.24, is a type II transmembrane GPI-protein with a molecular weight of about 29-33 kD. It is an interferon-induced protein expressed on dendritic cells, plasma cells, B lymphoblast cells, monocytes, granulocytes, T cells, NK cells, stromal cells, and some non-hematopoietic cells. BST2 inhibits cytokine production through interaction with ILT7 (CD85g). It is also involved in the regulation of B cell growth. More importantly, BST2 has been found to restrict the release of a number of viruses from infected cells, including all tested retroviruses (such as HIV-1) and some arenaviruses and filoviruses. In HIV-1 studies, it has been reported that BST2 retains the nascent virons on the surface of infected cells by incorporation of the protein into HIV-1 particles. HIV-1 Vpu is able to induce BST2 degradation.

Antigen References:

1. Sugamata OT, et al. 1999. Biochem. Bioph. Res. Co. 258:583.

2. Neil SJ, et al. 2008. Nature 451:425.

3. Fitzpatrick K, *et al.* 2010. *PLoS Pathog.* 6:e1000701.

4. Azuma KS, et