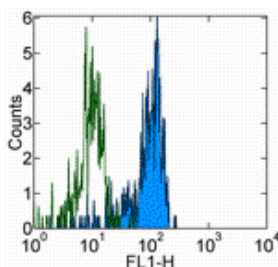


Anti-Human CD157 Purified

Catalog Number: 14-1579

Also Known As: BST-1, BP-3/IF-7

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



Staining of normal human peripheral blood cells with 0.25 ug of Mouse IgG1 K Isotype Control Purified (cat. 14-4714) (open histogram) or 0.25 ug of Anti-Human CD157 Purified (filled histogram) followed by Anti-Mouse IgG FITC (cat. 11-4011). Cells in the monocyte gate were used for analysis.

Product Information

Contents: Anti-Human CD157 Purified

REF **Catalog Number:** 14-1579

Clone: eBioSY11B5 (SY11B5)

Concentration: 0.5 mg/mL

Host/Isotype: Mouse IgG1, kappa

Formulation: aqueous buffer, 0.09% sodium azide, may contain carrier protein/stabilizer



Temperature Limitation: Store at 2-8°C.



Batch Code: Refer to Vial



Use By: Refer to Vial



Caution, contains Azide

Description

The eBioSY11B5 monoclonal antibody recognizes human CD157 (Mo5, BST-1). CD157 is a 42-45 kDa, GPI-anchored protein with structural and functional similarities with CD38. CD157 was initially cloned because of its expression on monocytes and macrophages, and was subsequently discovered to be the same protein named BST-1, discovered for its expression on bone marrow stromal cells and its ability to stimulate the proliferation of a mouse pre-B cell line. CD157 is a pleiotropic ectoenzyme and is thought to act independently as an enzyme and receptor. Similar to CD38, CD157 is involved in the metabolism of NAD⁺ and this activity may be involved in regulating intracellular Ca²⁺ levels. As a receptor, upon binding of its putative ligand, CD157 is thought to initiate a signal transduction cascade resulting in the phosphorylation of cytoplasmic proteins including focal adhesion kinase (FAK). The mechanism and functional significance of CD157-initiated signal transduction remain to be fully characterized.

Applications Reported

This eBioSY11B5 (SY11B5) antibody has been reported for use in flow cytometric analysis, immunoprecipitation, immunoblotting (WB) (non-reduced only), and immunohistology staining of frozen tissue sections.

Applications Tested

This eBioSY11B5 (SY11B5) antibody has been tested by flow cytometric analysis of normal human peripheral blood leukocytes. This can be used at less than or equal to 0.5 µg per test. A test is defined as the amount (µg) of antibody that will stain a cell sample in a final volume of 100 µL. Cell number should be determined empirically but can range from 10⁵ to 10⁸ cells/test. It is recommended that the antibody be carefully titrated for optimal performance in the assay of interest.

References

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Kaisho T, Ishikawa J, Oritani K, Inazawa J, Tomizawa H, Muraoka O, Ochi T, Hirano T. BST-1, a surface molecule of bone marrow stromal cell lines that facilitates pre-B-cell growth. *Proc Natl Acad Sci U S A.* 1994 Jun 7;91(12):5325-9.

Goldstein SC, Todd RF 3rd. Structural and biosynthetic features of the Mo5 human myeloid differentiation antigen. *Tissue Antigens.* 1993 Apr;41(4):214-8.

Related Products

11-4011 Anti-Mouse IgG FITC

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