

Analyte Specific Reagent.

Analytical and performance characteristics are not established

	Specifications
IOTest	Clone SY/11B5
CD157-PE	Hybridoma X63 x balb/c
PN B68160	Immunogen Human CD157+ cells
	Isotype IgG1 kappa
	Species Mouse
	Source Ascites fluid or supernatant of in vitro cultured hybridoma cells
	Purification Affinity chromatography
	Fluorochrome R Phycoerythrin (PE)
	Molar ratio PE / Ig: 0.5 - 1.5
	λ excitation 488 nm
	Emission Peak 575 nm
	Buffer PBS pH 7.2 plus 2 mg / mL BSA and 0.1% NaN ₃

Conjugated Antibody
Liquid - 1 mL

SPECIFICITY

The CD157 antigen also known as bone marrow stromal cell antigen 1 (BST-1) is a highly glycosylated, glycosyl-phosphatidylinositol (GPI)-anchored membrane protein with a molecular weight of 43 kDa (1). The amino acid sequence of human BST-1 has 33% identity with CD38 (2, 3). As with CD38, BST-1 displays ADP ribosyl cyclase activity and facilitates pre-B cell growth (2). CD157 antigen is expressed on monocytes, neutrophils and all lymphoid and myeloid precursors (4). Its expression is restricted to certain fractions (CD44-CD25+ and CD44- CD25-) of CD3-CD4-CD8- T progenitors (5). The SY11B5 monoclonal antibody has been recently assigned to the CD157 cluster of differentiation according to HCDM organization (Human Cell Differentiation Molecules).

REAGENT CONTENTS

Concentration: See lot specific Certificate of Analysis at www.beckmancoulter.com.

PRECAUTIONS

1. This reagent contains 0.1% sodium azide. Sodium azide under acid conditions yields hydrazoic acid, an extremely toxic compound. Azide compounds should be flushed with running water while being discarded. These precautions are recommended to avoid deposits in metal piping in which explosive conditions can develop. If skin or eye contact occurs, wash excessively with water.
2. Specimens, samples and all material coming in contact with them should be considered potentially infectious and disposed of with proper precautions.
3. Never pipet by mouth and avoid contact of samples with skin and mucous membranes.

4. Do not use antibody beyond the expiration date on the label.
5. Do not expose reagents to strong light during storage or incubation.
6. Avoid microbial contamination of reagents or incorrect results might occur.
7. Use good laboratory practices when handling this reagent.
8. Any change in the physical appearance of the reagents may indicate deterioration and the reagent should not be used.

STORAGE AND HANDLING CONDITIONS AND STABILITY

This reagent is stable up to the expiration date when stored at 2 – 8°C. Do not freeze. No reconstitution is necessary. This monoclonal antibody may be used directly from the vial. Bring reagent to 18 – 25°C prior to use.

SELECTED RESEARCH REFERENCES

1. Itoh, M., Ishihara, K., Tomizawa, H., Tanaka, H., Kobune, Y., Ishikawa, J., Kaisho, T., Hirano, T., "Molecular cloning of murine BST-1 having homology with CD38 and Aplysia ADP-ribosyl cyclase", 1994, Biochem. Biophys. Res. Commun., 203, 1309-1317.
2. Hirata, U., Kimura, N., Sato, K., Ohsugi, Y., Takasawa, S., Okamoto, H., Ishikawa, J., Kaisho, T., Ishihara, K., Hirano, T., "ADP ribosyl cyclase activity of a novel bone marrow stromal cell surface molecule, BST-1", 1994, FEBS letters, 356, 244-248.
3. Kajimoto, Y., Miyagawa, J.I., Ishihara, K., Okuyama, Y., Fujitani, Y., Itoh, M., Yoshida, H., Kaisho, T., Matsuoka, T.A., Watada, H., Hanafusa, T., Yamasaki, Y., Kamada, T., Matsuzawa, Y., Hirano, T., "Pancreatic islet cells express BST-1, a CD38-like surface molecule having

- ADPribosyl cyclase activity", 1996, Biochem. Biophys. Res. Commun., 219, 941-946.
4. Ishihara, K., Okuyama, Y., Lee, B.O.K, Itoh, M., Nishikawa, K., Hirano, T., "CD157 (BST-1) Workshop Panel Report", 1998, Leucocyte Typing VI, White Cell Differentiation Antigens. Kishimoto, T., Kikutani, H., et al., Eds., Garland Publishing, Inc, p. 1086-1089.
5. Vicari, A.P., Bean, A.G.D., Zlotnik, A., "A role for BP-3/BST-1 antigen in early T cell development", 1996, Int. Immunol., 8, 183-191.

TRADEMARKS

Beckman Coulter, the stylized logo and IOTest, are trademarks of Beckman Coulter, Inc., and registered with the USPTO.

MANUFACTURED BY:

IMMUNOTECH SAS
a Beckman Coulter Company
130, avenue de Lattre de Tassigny
B.P. 177 - 13276 Marseille Cedex 9
France

For additional information, or if damaged product is received, call Beckman Coulter Customer Service at 800-526-7694 (USA or Canada) or contact your local Beckman Coulter Representative.

www.beckmancoulter.com

Printed in France.
Made in France.

©2015 Beckman Coulter, Inc.
All Rights Reserved

