

CD157 Monoclonal Antibody (eBioSY11B5 (SY11B5)), eBioscience™

Product Details	
Size	100 µg
Species Reactivity	Human
Published Species	Human
Host/Isotype	Mouse / IgG1, kappa
Class	Monoclonal
Type	Antibody
Clone	eBioSY11B5 (SY11B5)
Conjugate	Unconjugated
Form	Liquid
Concentration	0.5 mg/mL
Purification	Affinity chromatography
Storage buffer	PBS, pH 7.2
Contains	0.09% sodium azide
Storage conditions	4° C
RRID	AB_529487

Applications	Tested Dilution	Publications
Western Blot (WB)	Assay-Dependent	1 Publication
Immunohistochemistry (Frozen) (IHC (F))	Assay-Dependent	-
Flow Cytometry (Flow)	0.5 µg/test	2 Publications
Immunoprecipitation (IP)	Assay-Dependent	-

Product Specific Information

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.

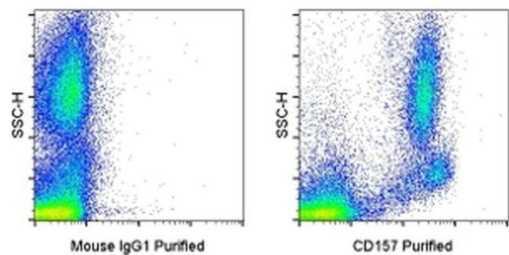
Applications Tested: This eBioSY11B5 (SY11B5) antibody has been tested by flow cytometric analysis of normal human peripheral blood cells. This can be used at less than or equal to 0.5 µg per test. A test is defined as the amount (µg) of antibody that will stain a cell sample in a final volume of 100 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.

Purity: Greater than 90%, as determined by SDS-PAGE.

Aggregation: Less than 10%, as determined by HPLC.

Filtration: 0.2 µm post-manufacturing filtered.

Product Images For CD157 Monoclonal Antibody (eBioSY11B5 (SY11B5)), eBioscience™



CD157 Antibody (14-1579-82) in Flow
Staining of normal human peripheral blood cells with 0.25 µg of Mouse IgG1 K Isotype Control Purified (Product # 14-4714-82) (left) or 0.25 µg of Anti-Human CD157 Purified (right) followed by F (ab')₂ Anti-Mouse IgG PE (Product # 12-4010-82).

View more figures on thermofisher.com

3 References

Western Blot (1)

Scientific reports	Year
Novel SCRG1/BST1 axis regulates self-renewal, migration, and osteogenic differentiation potential in mesenchymal stem cells.	2014
"14157982 was used in western blot to investigate the roles of SCRG1 and BST1 to the self-renewal, migration, and osteogenic differentiation of human mesenchymal stem cells"	Species
Authors: Aomatsu E,Takahashi N,Sawada S,Okubo N,Hasegawa T,Taira M,Miura H,Ishisaki A,Chosa N	Human

Flow Cytometry (2)

mBio	Year
CD157 Confers Host Resistance to Mycobacterium tuberculosis via TLR2-CD157-PKCzeta-Induced Reactive Oxygen Species Production.	2019
"Published figure using CD157 monoclonal antibody (Product # 14-1579-82) in Flow Cytometry"	
Authors: Yang Q,Liao M,Wang W,Zhang M,Chen Q,Guo J,Peng B,Huang J,Liu H,Yahagi A,Xu X,Ishihara K,Cooper A,Chen X,Cai Y	

Oncotarget	Year
Enhancement of anti-leukemia activity of NK cells in vitro and in vivo by inhibition of leukemia cell-induced NK cell damage.	2016
"14-1579 was used in Flow cytometry/Cell sorting to suggest that the generation of NK cell resistance to NKCA involves RNA transcription and metalloproteinase inactivation."	Species
Authors: Arriga R,Caratelli S,Coppola A,Spagnoli GC,Venditti A,Amadori S,Lanzilli G,Lauro D,Palomba P,Sconocchia T,Del Principe MI,Maurillo L,Buccisano F,Capuani B,Ferrone S,Sconocchia G	Human

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