

APC anti-mouse CD157 (BST-1) Antibody

Catalog# / Size	167003 / 25 µg 167004 / 100 µg
Clone	W21013C
Regulatory Status	RUO
Other Names	cADPr hydrolase 2, Ly-65, BP-3, ADP-ribosyl cyclase 2, BST1
Isotype	Rat IgG2a, κ
Description	CD157, also known as ADP-ribosyl cyclase 2, BST-1 (bone marrow stromal cell antigen 1), and BP-3 antigen, is an ectoenzyme member of the ADP-ribosyl cyclase family. It has a molecular weight between 40 - 46 kD and is a GPI-linked cell membrane glycoprotein which is expressed as a homodimer. CD157 is expressed by macrophages, neutrophils, bone marrow stromal cells, endothelial cells, follicular dendritic cells, and T and B cell progenitors prior to the rearrangement of the antigen receptors. Besides the ectoenzyme activity, it also plays a role in neutrophil migration and adhesion.

Product Details

Verified Reactivity	Mouse
Antibody Type	Monoclonal
Host Species	Rat
Immunogen	Mouse CD157 transfected cells
Formulation	Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide
Preparation	The antibody was purified by affinity chromatography and conjugated with APC under optimal conditions.
Concentration	0.2 mg/mL
Storage & Handling	The antibody solution should be stored undiluted between 2°C and 8°C, and protected from prolonged exposure to light. Do not freeze.
Application	FC - Quality tested
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 ≤ 1.0 µg per million cells in 100 µL volume. It is recommended that the reagent be titrated for optimal performance for each application.
Excitation Laser	Red Laser (633 nm)
Application Notes	Clone W21013C does not affect the binding of clone BP-3 on target cells.
RRID	AB_3698934 (BioLegend Cat. No. 167003) AB_3698934 (BioLegend Cat. No. 167004)

Antigen Details

Structure	Member of the ADP-ribosyl cyclase family, ectoenzyme, 40-46 kD, glycosyl-phosphatidylinositol (GPI)- anchored membrane protein, present on the cell surface as a homodimer
Distribution	Expressed by endothelial cells, follicular dendritic cells, cells from the myeloid lineage, and T and B cell precursors prior to the rearrangement of the antigen receptor. Expressed in many cell types from different tissues like the bone marrow, spleen, thymus, lung, kidney, and heart.

Function	Synthesizes cyclic ADP-ribose (cADPR)
Cell Type	B cells, Dendritic cells, Endothelial cells, T cells
Biology Area	Immunology, Innate Immunity
Molecular Family	CD Molecules

Antigen References

1. Yamamoto-Katayama S, *et al.* 2002. *J Mol Biol.* 316:711-23.
2. Funaro A, *et al.* 2009. *Front Biosci.* 14:929-43.
3. Malavasi F, *et al.* 2006. *Mol Med.* 12:334-41.
4. Vicari AP, *et al.* 1996. *Int Immunol.* 8:183-91.

Gene ID [12182](#)

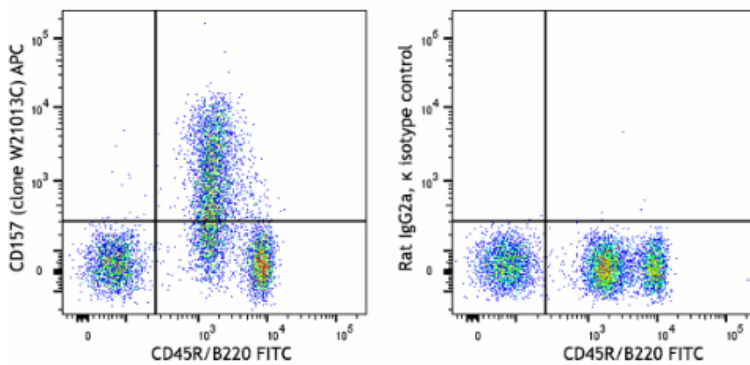
Related Protocols

- [Cell Surface Flow Cytometry Staining Protocol](#)

Other Formats

Purified anti-mouse CD157 (BST-1) Antibody, APC anti-mouse CD157 (BST-1) Antibody

Product Data



C57BL/6 mouse bone marrow cells were stained with anti-mouse CD45R/B220 (clone RA3-6B2) FITC and anti-mouse CD157 (BST-1, clone W21013C) APC (left) or rat IgG2a, κ APC isotype control (right).

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