

Datasheet: TZA0177GA

Description:	MOUSE ANTI HUMAN CD157
Specificity:	CD157
Other names:	BST-1
Format:	Purified
Product Type:	Monoclonal Antibody
Clone:	rA47B47-04/2D6-8
Isotype:	IgG1
Quantity:	0.1 mg

Product Details

Applications

This product has been reported to work in the following applications. This information is derived from testing within our laboratories, peer-reviewed publications or personal communications from the originators. Please refer to references indicated for further information. For general protocol recommendations, please visit www.bio-rad-antibodies.com/protocols.

	Yes	No	Not Determined	Suggested Dilution
Flow Cytometry	■			

Where this product has not been tested for use in a particular technique this does not necessarily exclude its use in such procedures. Suggested working dilutions are given as a guide only. It is recommended that the user titrates the product for use in their own system using appropriate negative/positive controls.

Target Species	Human
Product Form	Purified recombinant IgG containing a SpyTag at the C-terminus of the antibody heavy chain – liquid
Preparation	Purified IgG prepared by affinity chromatography on Protein A from tissue culture supernatant
Source	CHO cells
Buffer Solution	Phosphate buffered saline
Preservative Stabilisers	0.09% Sodium Azide (NaN ₃)
Approx. Protein Concentrations	IgG concentration 1.0 mg/ml

Immunogen Recombinant human CD157 Gly29-Ala292 expressed by mammalian cells

**External Database
Links**

UniProt:

[Q10588](#)

[Related reagents](#)

Entrez Gene:

[683](#)

BST1

[Related reagents](#)

Specificity

Mouse anti Human CD157 antibody, clone rA47B47-04/2D6-8, is a recombinant monoclonal antibody that recognizes CD157, also known as bone marrow stromal cell antigen 1 (BST-1) and ADP-ribosyl cyclase/cyclic ADP-ribose hydrolase 2.

CD157 is a GPI-anchored glycoprotein receptor and ecto-enzyme. In the hematopoietic system, CD157 is prevalently expressed by cells of the myelomonocytic lineage, including macrophages, monocytes and mature neutrophils. Expression is not restricted to the myeloid compartment and CD157 has been detected in cells and tissues of different origins, including the gut and brain. A soluble form of CD157 can be detected in serum and other biological fluids. CD157 binds with high affinity to the heparin binding domains of fibronectin, collagen I, fibrinogen and laminin-1, through which it regulates cell adhesion and migration via integrin mediated signaling. CD157 has both cyclic ADP-ribose hydrolase and ADP-ribosyl cyclase activities, however the functional role of CD157 as an ecto-enzyme is unclear.

CD157 is expressed in the majority of Acute myeloid leukemia (AML) patients at the point of diagnosis and is a promising therapeutic target for AML. CD157 has been used as a marker for the diagnosis of paroxysmal nocturnal hemoglobinuria.

Flow Cytometry

Use 5µl of the suggested working dilution to label 0.5×10^6 cells in 100µl. Best practices suggest a 5 min centrifugation at 6,000g prior to sample application.

Storage

This product is shipped at ambient temperature. It is recommended to aliquot and store at -20°C on receipt. When thawed, aliquot the sample as needed. Keep aliquots at 2-8°C for short term use (up to 4 weeks) and store the remaining aliquots at -20°C.

Avoid repeated freezing and thawing as this may denature the antibody. Storage in frost-free freezers is not recommended.

Guarantee

12 months from date of despatch

Acknowledgements

This product and/or its use is covered by claims of U.S. patents, and/or pending U.S. and non-U.S. patent applications owned by or under license to Bio-Rad Laboratories, Inc. See bio-rad.com/en-us/trademarks for details.

**Health And Safety
Information**

Material Safety Datasheet documentation #10040 available at:
<https://www.bio-rad-antibodies.com/SDS/TZA0177GA>

Regulatory

For research purposes only

Related Products

Recommended Secondary Antibodies

Goat Anti Mouse IgG IgA IgM (STAR87...)	HRP
Goat Anti Mouse IgG (STAR70...)	FITC
Goat Anti Mouse IgG (STAR77...)	HRP
Goat Anti Mouse IgG (STAR76...)	RPE
Rabbit Anti Mouse IgG (STAR13...)	HRP
Rabbit Anti Mouse IgG (STAR9...)	FITC
Goat Anti Mouse IgG (Fc) (STAR120...)	FITC , HRP
Rabbit Anti Mouse IgG (STAR12...)	RPE
Goat Anti Mouse IgG (H/L) (STAR117...)	Alk. Phos. , DyLight®488 , DyLight®550 , DyLight®650 , DyLight®680 , DyLight®800 , FITC , HRP

Recommended Negative Controls

[MOUSE IgG1 NEGATIVE CONTROL \(MCA928\)](#)

Product inquiries: www.bio-rad-antibodies.com/technical-support

To find a batch/lot specific datasheet for this product, please use our online search tool at: bio-rad-antibodies.com/datasheets

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