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Diagnostik & molekulare Diagnostik



Laborgeräte & Service

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SZABO-SCANDIC HandelsgmbH

Quellenstraße 110, A-1100 Wien

T. +43(0)1 489 3961-0

F. +43(0)1 489 3961-7

mail@szabo-scandic.com

www.szabo-scandic.com

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Technically
Speaking

CEDARLANE[®]
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Conveniently Delivering You Today's Innovations
for the Science of Tomorrow™

**Anti-Mouse CD157 Receptor
Monoclonal Antibody**

Catalogue#	Format	Size	Concentration	Isotype Control
CL8984AP	Purified	250ug	1.0 mg/ml	CLCR2C00
CL8984F	FITC	100ug	0.1 mg/ml	CLCR2C01
CL8984PE	PE	50ug	0.1 mg/ml	CLCR2C04

Isotype: Rat IgG2C (Rat IgG 2b)

DESCRIPTION:

Cedarlane's anti-mouse CD157 monoclonal antibody detects the mouse CD157 receptor. CD157 also known as BP-3 Alloantigen or Bone marrow STromal cell antigen-1 (BST-1), is a 38-48 KDa differentially glycosylated glycosylphosphatidylinositol (GPI) anchored cell surface glycoprotein. CD157, like CD38 belongs to a family of genetically related pleiotropic ectoenzymes. The CD157 antigen is expressed on thymocytes, bone marrow B cells, neutrophils, macrophages, stromal cells, intestinal epithelial cells, the collecting tubules of the kidney and reticular cells in lymph nodes.

The CD157 receptor has ADP ribosyl cyclase and cyclic ADP ribose hydrolase biochemical activities. Studies show CD157 is a receptor that induces reorganization of the cytoskeleton and significant changes in cell shape. CD157 is also a mediator of neutrophil adhesion and migration. Signals mediated by CD157 act through modulation of cytosolic $[Ca^{2+}]$. CD157 is also involved in cellular adhesion to the extracellular matrix.

This anti-body has been reported to work in Flow Cytometry.

PRESENTATION:

Purified: Purified IgG buffered in PBS and 0.02% NaN_3 . (Purified from ascitic fluid via Protein G Chromatography). For maximum recovery of contents, spin down tube before use.

FITC and PE: FITC/PE conjugated IgG buffered in PBS, 0.02% NaN_3 and EIA grade BSA as a stabilizing protein to bring total protein concentration to 4-5 mg/ml.

STORAGE/STABILITY:

For all formats, store at 4°C. DO NOT FREEZE PE conjugates. For long term storage (**Purified, FITC**), aliquot and freeze unused portion at -20°C in volumes appropriate for single usage. Avoid freeze/thaw cycles.

APPLICATION:

This anti-body has been reported to work in Flow Cytometry.

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4410 Paletta Court, Burlington, ON L7L 5R2 ph: (289) 288-0001, fax: (289) 288-0020
e-mail: general@cedarlanelabs.com

In the USA: Toll Free: 1-800-721-1644

1210 Turrentine Street, Burlington, NC 27215 ph: (336) 513-5135, fax: (336) 513-5138
e-mail: service@cedarlanelabs.com

SPECIFICATIONS:

Clone: KT157

Hybridoma Production:

Immunization:

Immunogen: T cell hybridoma J774

Donor: Mouse spleen cells

Fusion Partner: NSO myeloma cells

Specificity: Mouse CD157

Ig Class: Rat IgG2c (Rat IgG2b)

REFERENCES:

1. Funaro, A et al. 2004. CD157 is an important mediator of neutrophil adhesion and migration. *Blood*. December 15, 104(13):4269-4278.
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3. Itoh, M et al. 1998. Deletion of Bone Marrow Stromal Cell Antigen-1 (CD157) Gene Impaired Systemic Thymus Independent-2 Antigen-Induced IgG3 and Mucosal TD Antigen-Elicited IgA Responses. *The Journal of Immunology*. June 16, 161:3974-3983.
4. Ortolan, E et al. 2002. CD157, the Janus of CD38 but with a unique personality. *Cell Biochemistry and Function*. December 7, 20:309-322.
5. Seki, M et al. 2001. An Immature Rat Lymphocyte Marker CD157: Striking Differences in the Expression between Mice and Rats. *Immunobiology*, September 20, 203:725-742.