Anti-Mouse CD157 Receptor
Monoclonal Antibody

<table>
<thead>
<tr>
<th>Catalogue#</th>
<th>Format</th>
<th>Size</th>
<th>Concentration</th>
<th>Isotype Control</th>
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</thead>
<tbody>
<tr>
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<td>1.0 mg/ml</td>
<td>CLCR2C00</td>
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<td>CL8984F</td>
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<td>CLCR2C04</td>
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</table>

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 antibody has been reported to work in Flow Cytometry.

**PRESENTATION:**

**Purified:** Purified IgG buffered in PBS and 0.02% NaN₃. (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% NaN₃ 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 antibody has been reported to work in Flow Cytometry.
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:


