

**DESCRIPTION**

<b>Species Reactivity</b>	Mouse
<b>Specificity</b>	Detects mouse PLET-1 in direct ELISAs.
<b>Source</b>	Monoclonal Rat IgG <sub>1</sub> Clone # 700738
<b>Purification</b>	Protein A or G purified from hybridoma culture supernatant
<b>Immunogen</b>	Mouse myeloma cell line NS0-derived recombinant mouse PLET-1 Ala27-Leu216 Accession # Q8VEN2
<b>Formulation</b>	Lyophilized from a 0.2 µm filtered solution in PBS with Trehalose. See Certificate of Analysis for details. *Small pack size (-SP) is supplied either lyophilized or as a 0.2 µm filtered solution in PBS.

**APPLICATIONS**

Please Note: Optimal dilutions should be determined by each laboratory for each application. General Protocols are available in the Technical Information section on our website.

	<b>Recommended Concentration</b>	<b>Sample</b>
<b>Flow Cytometry</b>	2.5 µg/10 <sup>6</sup> cells	See Below
<b>Immunohistochemistry</b>	8-25 µg/mL	See Below
<b>CyTOF-ready</b>	Ready to be labeled using established conjugation methods. No BSA or other carrier proteins that could interfere with conjugation.	

**DATA**

<p><b>Flow Cytometry</b></p> <p><b>Detection of PLET-1 in Mouse Thymocytes by Flow Cytometry.</b> Mouse thymocytes were stained with Rat Anti-Mouse PLET-1 Monoclonal Antibody (Catalog # MAB6917, filled histogram) or isotype control antibody (Catalog # MAB005, open histogram), followed by Allophycocyanin-conjugated Anti-Rat IgG Secondary Antibody (Catalog # F0113).</p>	<p><b>Immunohistochemistry</b></p> <p><b>PLET-1 in Mouse Kidney.</b> PLET-1 was detected in immersion fixed frozen sections of adult mouse kidney using Rat Anti-Mouse PLET-1 Monoclonal Antibody (Catalog # MAB6917) at 15 µg/mL overnight at 4 °C. Tissue was stained using the Anti-Rat HRP-DAB Cell &amp; Tissue Staining Kit (brown; Catalog # CTS017) and counterstained with hematoxylin (blue). Specific staining was localized to medulla collecting ducts. View our protocol for Chromogenic IHC Staining of Frozen Tissue Sections.</p>
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**PREPARATION AND STORAGE**

<b>Reconstitution</b>	Sterile PBS to a final concentration of 0.5 mg/mL.
<b>Shipping</b>	The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below. *Small pack size (-SP) is shipped with polar packs. Upon receipt, store it immediately at -20 to -70 °C
<b>Stability &amp; Storage</b>	<b>Use a manual defrost freezer and avoid repeated freeze-thaw cycles.</b> <ul style="list-style-type: none"> <li>● 12 months from date of receipt, -20 to -70 °C as supplied.</li> <li>● 1 month, 2 to 8 °C under sterile conditions after reconstitution.</li> <li>● 6 months, -20 to -70 °C under sterile conditions after reconstitution.</li> </ul>

**BACKGROUND**

PLET-1 (placenta-expressed transcript 1), also known as antigen mAgK114, is a 23 kDa membrane protein that is probably GPI-anchored. It is recognized by the antibodies MTS20 and MTS24. Mature mouse PLET-1, which most likely includes amino acids (aa) 28-216 of 237 aa, shares less than 60% aa sequence identity with the most closely related rat or human protein. A potential 194 aa mouse splice variant diverges after aa 149 but still contains a hydrophobic sequence at the C-terminus. PLET-1 is a marker of early thymic progenitor cells and pancreatic duct epithelium.