

DESCRIPTION

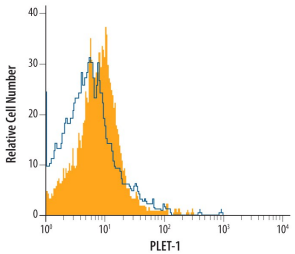
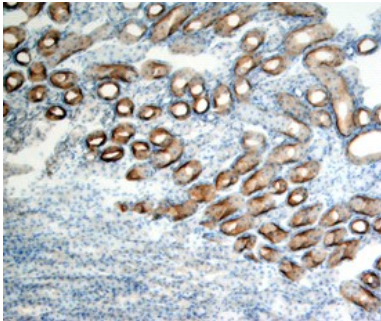
Species Reactivity	Mouse
Specificity	Detects mouse PLET-1 in direct ELISAs.
Source	Monoclonal Rat IgG ₁ Clone # 700738
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	Mouse myeloma cell line NS0-derived recombinant mouse PLET-1 Ala27-Leu216 Accession # Q8VEN2
Formulation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

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

DATA

Flow Cytometry	Immunohistochemistry
 <p>Detection of PLET-1 in Mouse Thymocytes by Flow Cytometry. 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>PLET-1 in Mouse Kidney. 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 & 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>

PREPARATION AND STORAGE

Reconstitution	Sterile PBS to a final concentration of 0.5 mg/mL.
Shipping	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
Stability & Storage	Use a manual defrost freezer and avoid repeated freeze-thaw cycles. <ul style="list-style-type: none"> ● 12 months from date of receipt, -20 to -70 °C as supplied. ● 1 month, 2 to 8 °C under sterile conditions after reconstitution. ● 6 months, -20 to -70 °C under sterile conditions after reconstitution.

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.