

DESCRIPTION

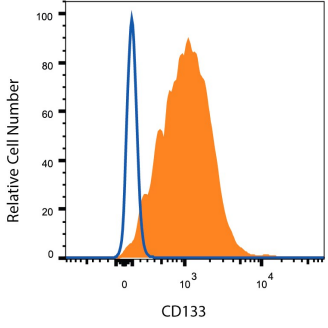
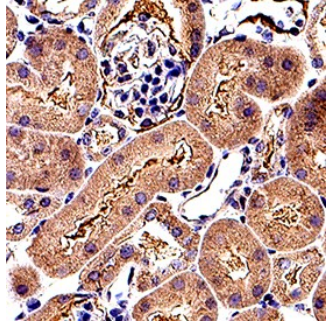
Species Reactivity	Mouse
Specificity	Detects mouse CD133 in direct ELISAs.
Source	Monoclonal Rat IgG _{2B} Clone # 217106
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	Chinese hamster ovary cell line CHO-derived recombinant mouse CD133 Accession # O54990
Formulation	Lyophilized from a 0.2 µm filtered solution in PBS with Trehalose. See Certificate of Analysis for details. *Small pack size (-SP) is supplied 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.

	Recommended Concentration	Sample
Flow Cytometry	0.25 µg/10 ⁶ cells	See Below
Immunohistochemistry	5-25 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

<p>Flow Cytometry</p>  <p>Detection of CD133 in D3 Mouse Cells by Flow Cytometry. D3 mouse cells were stained with Rat Anti-Mouse CD133 Monoclonal Antibody (Catalog # MAB11332, filled histogram) or isotype control antibody (Catalog # MAB0061, open histogram), followed by Phycoerythrin-conjugated Anti-Rat IgG Secondary Antibody (Catalog # F0105B). View our protocol for Staining Membrane-associated Proteins.</p>	<p>Immunohistochemistry</p>  <p>CD133 in Mouse Kidney. CD133 was detected in perfusion fixed frozen sections of mouse kidney using Rat Anti-Mouse CD133 Monoclonal Antibody (Catalog # MAB11332) at 15 µg/mL for 1 hour at room temperature followed by incubation with the Anti-Rat IgG VisUCyte™ HRP Polymer Antibody (Catalog # VC005). Before incubation with the primary antibody, tissue was subjected to heat-induced epitope retrieval using Antigen Retrieval Reagent-Basic (Catalog # CTS013). Tissue was stained using DAB (brown) and counterstained with hematoxylin (blue). Specific staining was localized to cell surface in epithelial cells in convoluted tubules. View our protocol for IHC Staining with VisUCyte HRP Polymer Detection Reagents.</p>
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PREPARATION AND STORAGE

Reconstitution	Reconstitute at 0.5 mg/mL in sterile PBS.
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

Mouse Prominin-1 (also known as CD133) is a 867 aminoacids glycoprotein encoded by the PROM1 gene. Prominin-1 is a member of pentaspan transmembrane glycoproteins (5-transmembrane, 5-TM). In human, Prom-1 is expressed on primitive hematopoietic stem and progenitor cells, retinoblastoma, hemangioblasts, and neural stem cells as well as on developing epithelium. In Mouse, at least 7 different isoforms have been proposed. Human and mouse PROM-1 share only 61% aminoacid sequence identity.