

DESCRIPTION

Species Reactivity	Mouse
Specificity	Detects mouse CD155/PVR in direct ELISAs.
Source	Monoclonal Rat IgG _{2A} Clone # 690912
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	Mouse myeloma cell line NS0-derived recombinant mouse CD155/PVR Asp29-Leu348 Accession # NP_081790
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.

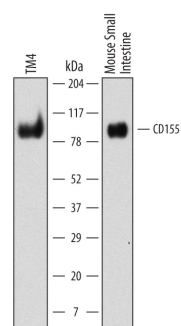
APPLICATIONS

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
Western Blot	2 µg/mL	See Below
Flow Cytometry	2.5 µg/10 ⁶ cells	See Below
Immunocytochemistry	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.	

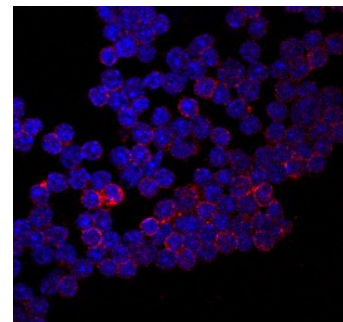
DATA

Western Blot



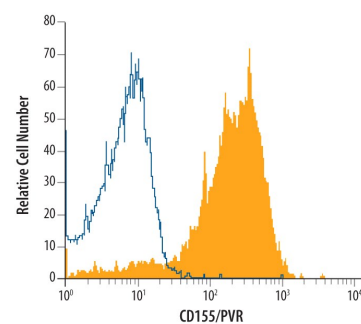
Detection of Mouse CD155/PVR by Western Blot. Western blot shows lysates of TM4 mouse sertoli cell line and mouse small intestine tissue. PVDF membrane was probed with 2 µg/mL of Rat Anti-Mouse CD155/PVR Monoclonal Antibody (Catalog # MAB6909) followed by HRP-conjugated Anti-Rat IgG Secondary Antibody (Catalog # HAF005). A specific band was detected for CD155/PVR at approximately 80 kDa (as indicated). This experiment was conducted under non-reducing conditions and using Immunoblot Buffer Group 1.

Immunocytochemistry



CD155/PVR in Mouse Thymocytes. CD155/PVR was detected in immersion fixed adult mouse thymocytes using Rat Anti-Mouse CD155/PVR Monoclonal Antibody (Catalog # MAB6909) at 10 µg/mL for 3 hours at room temperature. Cells were stained using the NorthernLights™ 557-conjugated Anti-Rat IgG Secondary Antibody (red; Catalog # NL013) and counterstained with DAPI (blue). Specific staining was localized to cell surfaces. View our protocol for Fluorescent ICC Staining of Cells on Coverslips.

Flow Cytometry



Detection of CD155/PVR in Mouse Thymocytes by Flow Cytometry Mouse thymocytes were stained with Rat Anti-Mouse CD155/PVR Monoclonal Antibody (Catalog # MAB6909, filled histogram) or isotype control antibody (Catalog # MAB006, open histogram), followed by Allophycocyanin-conjugated Anti-Rat IgG Secondary Antibody (Catalog # F0113).

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

CD155, also known as PVR (poliovirus receptor) and Nectin-5 (Nectin-like molecule-5), is a 70 kDa type I transmembrane glycoprotein that binds poliovirus as well as Vitronectin, Nectin-3, and DNAM-1. CD155 contains three Ig-like domains in its extracellular region. It is expressed in a variety of normal tissues and is upregulated in tumor cells of epithelial and neuronal origin. Within aa 29-348 of the extracellular region, mouse CD155 shares 45% and 73% aa sequence identity with human and rat CD155, respectively.