Human CD155/PVR PE-conjugated Antibody

Monoclonal Mouse IgG_1 Clone # 300907

Catalog Number: FAB25301P

100 Tests

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human CD155/PVR in direct ELISAs and Western blots.
Source	Monoclonal Mouse IgG_1 Clone # 300907
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	Mouse myeloma cell line NS0-derived recombinant human CD155/PVR Gly27-Asn343 Accession # AAH15542
Conjugate	Phycoerythrin Excitation Wavelength: 488 nm Emission Wavelength: 565-605 nm
Formulation	Supplied in a saline solution containing BSA and Sodium Azide. See Certificate of Analysis for details. *Contains <0.1% Sodium Azide, which is not hazardous at this concentration according to GHS classifications. Refer to the Safety Data Sheet (SDS) for additional information and handling instructions.

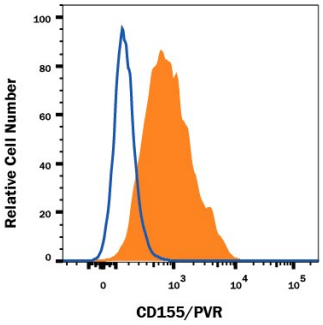
APPLICATIONS

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	10 µL/10^6 cells	See Below

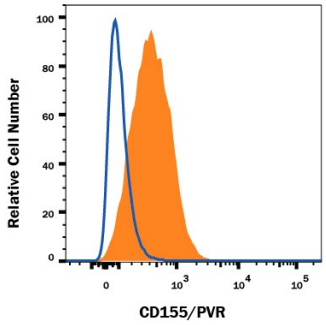
DATA

Flow Cytometry



Detection of CD155/PVR in U937 Human Cell Line by Flow Cytometry. U937 human histiocytic lymphoma cell line was stained with Mouse Anti-Human CD155/PVR PE-conjugated Monoclonal Antibody (Catalog # FAB25301P, filled histogram) or isotype control antibody (Catalog # IC002P, open histogram). View our protocol for Staining Membrane-associated Proteins.

Flow Cytometry



Detection of CD155/PVR in HUVEC Human Cells by Flow Cytometry. HUVEC human umbilical vein endothelial cells were stained with Mouse Anti-Human CD155/PVR PE-conjugated Monoclonal Antibody (Catalog # FAB25301P, filled histogram) or isotype control antibody (Catalog # IC002P, open histogram). View our protocol for Staining Membrane-associated Proteins.

PREPARATION AND STORAGE

Shipping	The product is shipped with polar packs. Upon receipt, store it immediately at the temperature recommended below.
Stability & Storage	**Protect from light. Do not freeze.** • 12 months from date of receipt, 2 to 8 °C as supplied.

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Human CD155/PVR PE-conjugated Antibody

Monoclonal Mouse IgG_1 Clone # 300907

Catalog Number: FAB25301P

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BACKGROUND

CD155 [also known as PVR (poliovirus receptor) and Necl-5 (nectin-like molecule-5)] is a 70 kDa type I transmembrane (TM) glycoprotein that is a member of the nectin-like (Necl) family of nectin-related molecules (1). Like nectins, Necl molecules are Ig superfamily members that contain three Ig-like extracellular domains, a TM segment, and a cytoplasmic tail. Unlike nectins, Necl molecules cannot interact with cytoplasmic afadin (1). While Nectins serve as cell adhesion molecules, the actual functions of most Necls are yet-to-be determined. CD155/PVR was originally isolated based on its ability to mediate polio virus attachment to host cells (2, 3). The full-length (or CD155α isoform) is synthesized as a 417 amino acid (aa) precursor that contains a 20 aa signal sequence, a 323 aa extracellular region, a 24 aa TM segment and a 50 aa cytoplasmic tail. The extracellular region contains one N-terminal V-type and two C2-type Ig-like domains (2, 3). The V-type domain mediates polio virus binding (4). Three other isoforms exist, all of which retain the Ig-like domains. CD155δ is transmembrane with a shortened cytoplasmic tail of 25 aa. CD155β (352 aa) and CD155γ (344 aa) are 60-65 kDa soluble forms that show removal of the TM segment and surrounding amino acids (2, 5). The soluble forms will bind the polio virus (due to the presence of the V-type Ig domain) but afford no protection against polio infection because of low circulating levels (5). CD155 has been demonstrated to bind vitronectin, nectin-3, and DNAM-1 (6-8). DNAM-1 binding promotes monocyte migration and NK cell killing. CD155 is expressed in all normal tissues and is highly expressed in tumor cells of epithelial and neuronal origin.

References:

1. Takai, Y. *et al.* (2003) Cancer Sci. **94**:655.
2. Mendelsohn, C.L. *et al.* (1989) Cell **56**:855.
3. Koike, H. *et al.* (1990) EMBO J. **9**:3217.
4. Koike, S. *et al.* (1991) Proc. Natl. Acad. Sci. USA **88**:4104.
5. Baury, B. *et al.* (2003) Biochem. Biophys. Res. Commun. **309**:175.
6. Mueller, S. and E. Wimmer (2003) J. Biol. Chem. **278**:31251.
7. Reymond, N. *et al.* (2004) J. Exp. Med. **199**:1331.
8. Lange, R. *et al.* (2001) Virology **285**:218.

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