

Mouse anti-Human PVRL1/NECTIN1 Monoclonal Antibody | anti-NECTIN1 antibody

Anti-PVRL1/NECTIN1 Antibody (APC), Mouse Monoclonal

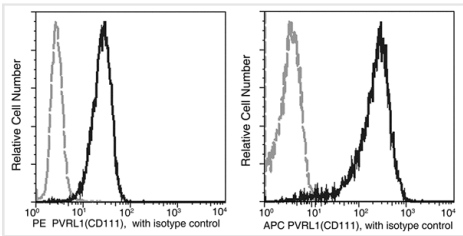
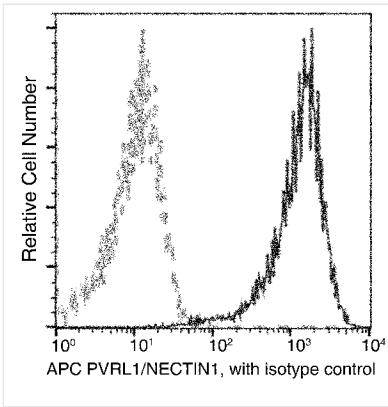
CATALOG # AAA255434	HOST Mouse	REACTIVITY Human	APPLICATIONS Flow Cytometry, Functional Assay
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PRODUCT SYNONYMS

PVRL1/NECTIN1; Monoclonal Antibody; Anti-PVRL1/NECTIN1 Antibody (APC); Mouse Monoclonal; CD111/Nectin-1/PVRL1 Antibody (APC); Mouse MAb; poliovirus receptor-related 1 (herpesvirus entry mediator C); Anti-CD111 Antibody; Anti-CLPED1 Antibody; Anti-ED4 Antibody; Anti-HlgR Antibody; Anti-HV1S Antibody; Anti-HVEC Antibody; Anti-nectin-1 Antibody; Anti-OFC7 Antibody; Anti-PRR Antibody; Anti-PRR1 Antibody; Anti-PVRR Antibody; Anti-PVRR1 Antibody; Anti-SK-12 Antibody; anti-NECTIN1 antibody

PRODUCT SPECIFICATIONS

Host	Mouse
Reactivity	Human
Clonality	Monoclonal
Isotype	Mouse IgG2b
Clone Number	09
Specificity	Human CD111/Nectin-1/PVRL1
Purity/Purification	Protein A
Form/Format	Liquid; Aqueous solution containing 0.5% BSA and 0.09% sodium azide
Concentration	2ul/Test, 0.1mg/ml (varies by lot)
Applicable Applications for anti-NECTIN1 antibody	FCM/FACS (Flow Cytometry)
Immunogen	Recombinant Human CD111/Nectin-1/PVRL1 protein
Conjugation	APC
Preparation	This antibody was produced from a hybridoma resulting from the fusion of a mouse myeloma with B cells obtained from a mouse immunized with purified, recombinant Human CD111/Nectin-1/PVRL1 (rh CD111/Nectin-1/PVRL1) and conjugated with APC under optimum conditions, the unreacted APC was removed.
Preparation and Storage	This antibody can be stored at 2-8 degree C for twelve months without detectable loss of activity. Protected from prolonged exposure to light. Do not freeze! Sodium azide is toxic to cells and should be disposed of properly. Flush with large volumes of water during disposal.



FCM/FACS (Flow Cytometry)
Flow cytometric analysis of anti-human PVRL1 (CD111) on human erythroleukemia cell line TF-1.

FCM/FACS (Flow Cytometry)
Flow cytometric analysis of Human PVRL1(NECTIN1) expression on TF-1 cells. Cells were stained with APC-conjugated anti-Human PVRL1(NECTIN1). The fluorescence histograms were derived from gated events with the forward and side light-scatter characteristics of intact cells.

ADDITIONAL INFORMATION

Related Product Information for anti-NECTIN1 antibody	Poliovirus receptor-related 1 (herpesvirus entry mediator C; nectin-1; CD111), also known as PVRL1 is a cell adhesion molecule belonging to the immunoglobulin superfamily that can bind to virion glycoprotein D (gD) to mediate entry of herpes simplex viruses (HSV) and pseudorabies virus (PRV). CD111/Nectin-1/PVRL1 colocalizes with E-cadherin at adherens junctions in epithelial cells. The disruption of cell junctions can result in the redistribution of nectin-1. To determine whether disruption of junctions by calcium depletion influenced the susceptibility of epithelial cells to viral entry, Madin-Darby canine kidney cells expressing endogenous nectin-1 or transfected human nectin-1 were tested for the ability to bind soluble forms of viral gD and to be infected by HSV and PRV, before and after calcium depletion. It has been revealed that binding of HSV and PRV gD was localized to adherens junctions in cells maintained in normal medium but was distributed, along with nectin-1, over the entire cell surface after calcium depletion. Both the binding of gD and the fraction of cells that could be infected by HSV-1 and PRV were enhanced by calcium depletion. Taken together, CD111/Nectin-1/PVRL1 confined to adherens junctions in epithelial cells is not very accessible to virus, whereas dissociation of cell junctions releases nectin-1 to serve more efficiently as an entry receptor.
References	Yoon M, et al. (2002) Disruption of adherens junctions liberates nectin-1 to serve as receptor for herpes simplex virus and pseudorabies virus entry. J Virol. 76(14): 7203-8.Mata M, et al. (2001) HveC (nectin-1) is expressed at high levels in sensory neurons, but not in motor neurons, of the rat peripheral nervous system. J Neurovirol. 7(5): 476-80.Haarr L, et al. (2001) Transcription from the gene encoding the herpesvirus entry receptor nectin-1 (HveC) in nervous tissue of adult mouse. Virology. 287(2): 301-9.

NCBI AND UNIPROT INFORMATION

NCBI GI #	42560237
NCBI GeneID	5818
NCBI Accession #	NP_002846.3
NCBI GenBank Nucleotide #	NM_002855.4
UniProt Accession #	Q15223; O75465; Q2M3D3; Q9HBE6; Q9HBW2
Molecular Weight	57,158 Da
NCBI Official Full Name	poliovirus receptor-related protein 1 isoform 1
NCBI Official Synonym Full Names	poliovirus receptor-related 1 (herpesvirus entry mediator C)
NCBI Official Symbol	PVRL1
NCBI Official Synonym Symbols	ED4; PRR; HlgR; HVEC; OFC7; PRR1; PVRR; CD111; PVRR1; SK-12; CLPED1; nectin-1

NCBI Protein Information	poliovirus receptor-related protein 1; nectin 1; poliovirus receptor-like 1; herpesvirus Ig-like receptor; herpes virus entry mediator C; ectodermal dysplasia 4 (Margarita Island type)
UniProt Protein Name	Poliovirus receptor-related protein 1
UniProt Gene Name	PVRL1
UniProt Synonym Gene Names	HVEC; PRR1; Herpesvirus entry mediator C; HveC; HlgR
UniProt Entry Name	PVRL1_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

AAA Biotech | Tel: +1 (619) 604-9440 | Fax: +1 (619) 604-9441 | contact@aaabiotech.com
Online datasheet: <https://stage.aaabiotech.com/monoclonal/pvrl1-nectin1-antibody-clone-09-flow-cytometry-elisa/255434>