NECTIN1 Cell Lysate – Tissue Lysate

PRODUCT OVERVIEW

Product Name	PVRL1/NECTIN1, Cell Lysate
Full Product Name	Human PVRL1/NECTIN1 HEK293 Overexpression Lysate
Product Gene Name	NECTIN1 cell lysate
Product Synonym Names	Human PVRL1/HVEC/CD111/Nectin-1 HEK293 Cell Lysate (WB positive control); poliovirus receptor-related 1 (herpesvirus entry mediator C); Human CD111 Overexpression Lysate; Human CLPED1 Overexpression Lysate; Human ED4 Overexpression Lysate; Human HIgR Overexpression Lysate; Human HV1S Overexpression Lysate; Human HVEC Overexpression Lysate; Human nectin-1 Overexpression Lysate; Human OFC7 Overexpression Lysate; Human PRR Overexpression Lysate; Human PRR1 Overexpression Lysate; Human PVRR Overexpression Lysate; Human PVRR1 Overexpression Lysate; Human SK-12 Overexpression Lysate
Sequence	Met1-Thr33 4
Host	HEK293 Cells
Form/Format	1x Sample Buffer (1x modified RIPA buffer+1x SDS loading buffer). Modified RIPA Lysis Buffer: 50 mM Tris-HCl pH 7.4, 150 mM NaCl, 1mM EDTA, 1% Triton X-100, 0.1% SDS, 1% Sodium deoxycholate, 1mM PMSF.
Preparation and Storage	Store at 4 degree C for up to twelve months from date of receipt. After re-dissolution, aliquot and store at -80 degree C for up to twelve months. Avoid repeated freeze-thaw cycles. Samples are stable for up to twelve months from date of receipt.
Molecular Weight	57,158 Da
Sequence Positions	315aa
Chromosome Location	Chromosome: 11; NC_000011.9 (119508808..119599435, complement). Location: 11q23.3
OMIM	225060
3D Structure	ModBase 3D Structure for Q15223
Species	Human
Recommend Usage	1. Centrifuge the tube for a few seconds and ensure the pellet at the bottom of the tube.**2. Re-dissolve the pellet using 200uL pure water and boil for 2-5 min.**
Sequence Construction	A DNA sequence encoding the human PVRL1 isoform 1 (NP_002846.3) extracellular domain (Met 1-Thr 334) was expressed, with a polyhistidine tag at the C-terminus.
Preparation Method	Cell lysate was prepared by homogenization of the over-expressed cells in ice-cold modified RIPA Lysis Buffer with cocktail of protease inhibitors. Cell debris was removed by centrifugation. Protein concentration was determined by Bradford assay (protein assay, Microplate Standard assay). The cell lysate was boiled for 5 min in 1 x SDS loading buffer (50mM Tris-HCl pH 6.8, 12.5% glycerol, 1% sodium dodecylsulfate, 0.01% bromophenol blue) containing 5% b-mercaptoethanol, and lyophilized.
Applications Tested/Suitable for NECTIN1 cell lysate	Western Blot (WB)
Application Notes for NECTIN1 cell lysate	WB: Use at an assay dependent dilution.

Related Product Information for NECTIN1 cell lysate	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 recptor. This Human PVRL1/NECTIN1 overexpression lysate was created in HEK293 Cells and intented for use as a Western blot (WB) positive control. Purification of PVRL1/NECTIN1 protein from the overexpression lysate was verified.
Product References and Citations for NECTIN1 cell lysate	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.
Other Notes	Small volumes of NECTIN1 cell lysate vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for NECTIN1 purchase	MBS8114608 is a cell lysate targeting NECTIN1. Also known as Human PVRL1/NECTIN1 HEK293 Overexpression Lysate. Host: HEK293 Cells.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for NECTIN1. It may not necessarily be applicable to this product.

NCBI GI #	42560237
NCBI GeneID	5818
NCBI Accession #	NP_002846.3
UniProt Primary Accession #	Q15223
UniProt Secondary Accession #	O75465; Q2M3D3; Q9HBE6; Q9HBW2
UniProt Related Accession #	Q15223
GenBank Nucleotide #	NM_002855.4
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; HIgR; HVEC; OFC7; PRR1; PVRR; CD111; PVRR1; SK-12; CLPED1; nectin-1
UniProt Protein Name	Poliovirus receptor-related protein 1
UniProt Synonym Protein Names	Herpes virus entry mediator C; Herpesvirus entry mediator C; HveC; Herpesvirus Ig-like receptor; HIgR; Nectin-1
Protein Family	Nectin
UniProt Gene Name	PVRL1
UniProt Synonym Gene Names	HVEC; PRR1; Herpesvirus entry mediator C; HveC; HIgR
UniProt Entry Name	PVRL1_HUMAN

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)
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