NECTIN1 Cell Lysate – Tissue Lysate

PRODUCT OVERVIEW

Product Name	PVRL1/NECTIN1, Cell Lysate
Full Product Name	Rat PVRL1/NECTIN1 HEK293 Overexpression Lysate
Product Gene Name	NECTIN1 cell lysate
Product Synonym Names	Rat CD111/Nectin-1/PVRL1 HEK293 Cell Lysate (WB positive control); poliovirus receptor-related 1 (herpesvirus entry mediator C)
Sequence	Met1-Ala35 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.
Sequence Positions	565aa
Species	Rat
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 rat PVRL1 (XP_236210.3) (Met1-Ala354) was expressed, fused with the Fc region of human IgG1 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 Rat 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	MBS8117493 is a cell lysate targeting NECTIN1. Also known as Rat 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 #	62653566
NCBI GeneID	192183
NCBI Accession #	XP_236210.3
GenBank Nucleotide #	XM_236210.8
NCBI Official Synonym Full Names	nectin cell adhesion molecule 1
NCBI Official Symbol	Nectin1
NCBI Official Synonym Symbols	HveC; Pvrl1; nectin-1
Protein Family	Nectin
NCBI Protein Information	nectin-1
NCBI Summary for NECTIN1	cellular receptor for Herpes simplex virus [RGD, Feb 2006]
Research Articles on NECTIN1	**1.** Data indicate that contextual fear conditioning showed transient nectin-1 upregulation in synapse-enriched hippocampal fractions at about 2 h posttraining.
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