

Datasheet for ABIN2180698

**Poliovirus Receptor Protein (PVR) (AA 21-343) (His tag)**[Go to Product page](#)[1 Image](#)[1 Publication](#)

## Overview

Quantity:	100 µg
Target:	Poliovirus Receptor (PVR)
Protein Characteristics:	AA 21-343
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Biological Activity:	Active
Purification tag / Conjugate:	This Poliovirus Receptor protein is labelled with His tag.

## Product Details

Sequence:	AA 21-343
Characteristics:	This protein carries a polyhistidine tag at the C-terminus. The protein has a calculated MW of 28 kDa. The protein migrates as 50-65 kDa under reducing (R) condition (SDS-PAGE) due to glycosylation.
Purity:	>95 % as determined by SDS-PAGE.
Sterility:	0.22 µm filtered
Endotoxin Level:	Less than 1.0 EU per µg by the LAL method.

## Target Details

Target:	Poliovirus Receptor (PVR)
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## Target Details

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Alternative Name: [CD155 \(PVR Products\)](#)

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Background: CD155 is a Type I transmembrane glycoprotein in the immunoglobulin superfamily. Commonly known as Poliovirus Receptor (PVR) due to its involvement in the cellular poliovirus infection in primates, CD155's normal cellular function is in the establishment of intercellular adherens junctions between epithelial cells. CD155/PVR was originally isolated based on its ability to mediate polio virus attachment to host cells. The fulllength (or CD155 alpha 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. CD155 is a transmembrane protein with 3 extracellular immunoglobulin-like domains, D1-D3, where D1 is recognized by the virus. Low resolution structures of CD155 complexed with poliovirus have been obtained using electron microscopy while a high resolution structures of the ectodomain D1 and D2 of CD155 were solved by x-ray crystallography.

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Molecular Weight: 35.9 kDa

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NCBI Accession: [NP\\_006496](#)

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Pathways: [Regulation of Leukocyte Mediated Immunity](#), [Positive Regulation of Immune Effector Process](#), [Cell-Cell Junction Organization](#), [Cancer Immune Checkpoints](#), [SARS-CoV-2 Protein Interactome](#)

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## Application Details

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Restrictions: For Research Use only

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## Handling

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Format: Lyophilized

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Buffer: PBS, pH 7.4

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Handling Advice: Please avoid repeated freeze-thaw cycles.

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Storage: -20 °C

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Storage Comment: No activity loss was observed after storage at: In lyophilized state for 1 year (4 °C-8 °C), After reconstitution under sterile conditions for 1 month (4 °C-8 °C) or 3 months (-20 °C to -70 °C).

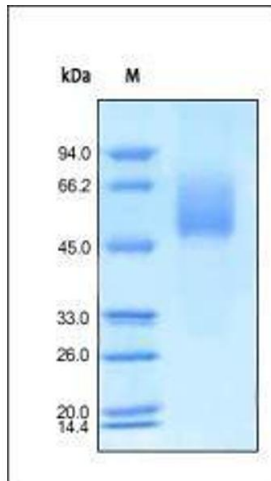
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## Publications

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Product cited in: Chandramohan, Bryant, Piao, Keir, Lipp, Lefavre, Perkinson, Bigner, Gromeier, McLendon: "Validation of an Immunohistochemistry Assay for Detection of CD155, the Poliovirus Receptor,"

in Malignant Gliomas." in: **Archives of pathology & laboratory medicine**, Vol. 141, Issue 12, pp. 1697-1704, (2017) ([PubMed](#)).



#### SDS-PAGE

**Image 1.** Human CD155, His Tag on SDS-PAGE under reducing (R) condition. The gel was stained overnight with Coomassie Blue. The purity of the protein is greater than 95%.