

Rev04  
 Update: Mar,01,2022

**DATASHEET**

# PVR/CD155 His, Human

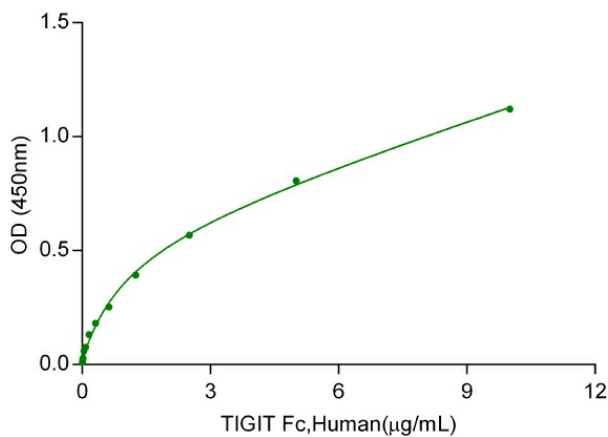
Cat. No.: Z03436

## Product Introduction

<b>Species</b>	Human
<b>Protein Construction</b>	<div style="display: flex; align-items: center; justify-content: center;"> <div style="background-color: #0056b3; color: white; padding: 5px; text-align: center;"> <b>PVR/CD155 (Trp21-Asn343)</b>            Accession # P15151         </div> <div style="margin: 0 10px;"> </div> <div style="background-color: #76b82a; color: white; padding: 5px; text-align: center;"> <b>Poly-His</b> </div> </div> <div style="display: flex; justify-content: space-around; margin-top: 5px; font-size: small;"> <span>N-term</span> <span>C-term</span> </div>
<b>Purity</b>	> 95% as analyzed by SDS-PAGE
<b>Endotoxin Level</b>	< 0.2 EU/μg of protein by gel clotting method
<b>Biological Activity</b>	Immobilized CD155 His, Human (Cat. No.: Z03436) at 5.0 μg/ml (100 μl/well) can bind TIGIT Fc, Human (Cat. No.: Z03439) with a linear range of 2.5-10.0 μg/ml.
<b>Expression System</b>	HEK 293
<b>Apparent Molecular Weight</b>	50~65 kDa, on SDS-PAGE under reducing conditions.
<b>Formulation</b>	Lyophilized from a 0.2 μm filtered solution in PBS, 5% trehalose and mannitol.
<b>Reconstitution</b>	It is recommended that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Reconstitute the lyophilized powder in ddH <sub>2</sub> O or PBS up to 100 μg/ml.
<b>Storage &amp; Stability</b>	Upon receiving, this product remains stable for up to 6 months at lower than -70°C. Upon reconstitution, the product should be stable for up to 1 week at 4°C or up to 3 months at -20°C. For long term storage it is recommended that a carrier protein (example 0.1% BSA) be added. Avoid repeated freeze-thaw cycles.

## Examples

Immobilized CD155 His, Human at 5 $\mu$ g/mL (100  $\mu$ L/well) can bind TIGIT Fc,Human with a linear range of 0.3-10  $\mu$ g/ml.



## Background

**Target Background :** PVR 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. PVR's normal cellular function is in the establishment of intercellular adherens junctions between epithelial cells. PVR/CD155 was originally isolated based on its ability to mediate polio virus attachment to host cells. The full length (or PVR alpha isoform) is synthesized as a 417 amino acid (aa) precursor that contains a 20aa signal sequence, a 323aa extracellular region, a 24aa TM segment and a 50aa cytoplasmic tail. PVR binds other molecules including Vitronectin, Nectin-3, DNAM-1/CD226, CD96, and TIGIT but does not bind homotypically. PVR is up-regulated on endothelial cells by IFN-gamma and is highly expressed on immature thymocytes, lymph node dendritic cells, and tumor cells of epithelial and neuronal origin.

**Synonyms :** CD155 antigen; CD155; HVED; NECL5; Necl-5; nectin-like 5; Nectin-like protein 5; poliovirus receptor; PVR

**For laboratory research use only. Direct human use, including taking orally and injection and clinical use are forbidden.**