

Active Recombinant Mouse CD155 Protein, His-tagged

Cat. No. Pvr-65M Lot. No. (See product label)

SPECIFICATION

Product Overview	CD155 protein dimer contains a CD155 extracellular domain (Uniprot# Q8K094) fused with a proprietary cis-dimer motif followed by a His tag at the C-terminus.
Species	Mouse
Source	HEK293T
ProteinLength	29-348 aa
Description	<p>Cluster of differentiation 155 (CD155) is a Type I transmembrane glycoprotein that belongs to the Nectin/Nectin-like family. CD155 is also known as Poliovirus Receptor (PVR), HVED, NECL5, Necl-5, PVS, TAGE4, and FLJ25946. CD155 protein consists of 3 extracellular immunoglobulin-like (Ig-like) domains (D1-D3), one transmembrane region, and a C-terminal cytoplasmic domain. CD155 is widely expressed on various cell types and often overexpressed on cancer cells. Upregulation of CD155 in several types of human cancers is associated with a poor prognosis. Although CD155 itself is not an immune checkpoint, it's a ligand for checkpoint receptors like TIGIT (T-cell immunoreceptor with Ig and ITIM domains), CD226 (DNAM-1), and CD96. The interactions between CD155 and its receptors on immune cells modulate immune responses, such as T cells and natural killer (NK) cells. This makes CD155 a critical player in immune regulation and a promising target in checkpoint cancer therapies. Mouse CD155 shares 60-70% amino acid identity with human CD155. While homologous, there are species-specific differences in ligand binding and immune interactions.</p>

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

Molecular Mass	86 kDa
Homodimer/Heterodimer	Homodimer
Purity	Greater than 90% dimer form as determined by SDS-PAGE under non-reducing condition
Application	Verified Applications: ELISA for CD155-specific antibody and TIGIT ligand protein binding assays. SPR for CD155 and TIGIT ligand protein binding assays. Suggested Applications: BLI for CD155-specific antibody and TIGIT protein binding assays. Animal immunization, RUO.
Storage	At -80 centigrade
Storage Buffer	0.22µm filtered PBS, pH 7.4
Shipping	Frozen Dry Ice

GENE INFORMATION

Gene ID	52118
Gene Name	Pvr poliovirus receptor [<i>Mus musculus</i> (house mouse)]
Official Symbol	52118
Synonyms	Pvr; poliovirus receptor; PVS; mE4; HVED; Taa1; CD155; Tage4; necl-5; D7Ert458e; 3830421F03Rik; poliovirus receptor; tumor-associated antigen 1
mRNA Refseq	NM_027514

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

Official Symbol 2	Pvr
Gene ID 2	52118
Gene Name 2	Pvr poliovirus receptor [<i>Mus musculus</i> (house mouse)]
mRNA Refseq 2	NM_027514
Protein Refseq 2	NP_081790
UniProt ID 2	Q8K094
Bioactivity-Antibody Binding	Immobilized mouse CD155 protein dimer, His Tag at 2 µg/mL (100 µL/well) can bind anti-mouse CD155 monoclonal antibody with half maximal effective concentration (EC50) range of 1.6-6.3 ng/mL (QC tested).
Bioactivity-Ligand Binding	Immobilized mouse CD155 protein dimer, His Tag at 2 µg/mL (100 µL/well) can bind mouse TIGIT dimer protein, Fc Tag with half maximal effective concentration (EC50) range of 3.9-15.6 ng/mL (QC tested).
SDS-PAGE	MW: Molecular Weight marker reduced condition NR: CD155 dimer under non-reduced condition

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA