RP00753

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Recombinant Mouse PVR/CD155 Protein

Catalog No.: RP00753 **Recombinant**

Sequence Information

Species	Gene ID	Swiss Prot
Mouse	52118	Q8K094

Tags
C-His

Synonyms
CD155;HVED;Necl-5;NECL5;PVS;TAGE4;PVR;CD155;HVED;Necl-5;NECL5;PVS;TAGE4;PVR

Product Information

Source
HEK293 cells

Purification
> 95% by SDS-PAGE.

Endotoxin
< 1 EU/μg of the protein by LAL method.

Formulation
Lyophilized from a 0.2 μm filtered solution of PBS, pH7.4.Contact us for customized product form or formulation.

Reconstitution
Reconstitute to a concentration of 0.1-0.5 mg/mL in sterile distilled water.

Background

Mouse poliovirus receptor (PVR, CD155) is a type I transmembrane (TM) glycoprotein that is a member of thenectin-related family of adhesion proteins within the immunoglobulin superfamily. It binds other moleculesincluding vitronectin, Nectin3, DNAM1, CD96, and TIGIT, but does not bind homotypically. CD155 includes a 28aa signal sequence, a 318 aa extracellular domain (ECD) with one N-terminal V-type and two C2-type Ig-likedomains, a 24 aa TM segment and a 38 aa cytoplasmic tail. Epithelial, endothelial, and many immune cellsshow low CD155 expression. It is up-regulated on endothelia by IFN γ , and is highly expressed on immaturethymocytes, lymph node dendritic cells, and tumor cells of epithelial and neuronal origin. On migrating cells, itis concentrated at the leading edge, where it binds basement membrane vitronectin, recruits Nectin-3-expressing cells, and cooperates with PDGF and integrin αvβ3 to promote cell migration. Binding of monocyteDNAM-1 to endothelial cell CD155 promotes transendothelial migration. Enhanced CD155 expression in tumorcells contributes to loss of contact inhibition and increased migration, but also allows tumor cell recognitionand killing by DNAM-1or CD96 expressing NK cells.

Basic Information

Description
Recombinant Mouse CD155/PVR Protein is produced by Human Cells expression system. The target protein is expressed with sequence (Asp29-Leu348) of mouse CD155/PVR (Accession #Q8K094) fused with a 6×His tag at the C-terminus.

Bio-Activity

Storage
Store the lyophilized protein at -20°C to -80 °C for long term.
After reconstitution, the protein solution is stable at -20 °C for 3 months, at 2-8 °C for up to 1 week. Avoid repeated freeze/thaw cycles.

Contact

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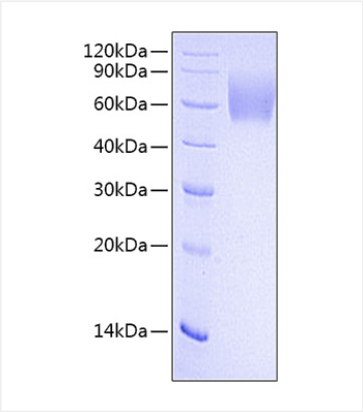
Validation Data



Recombinant Mouse PVR/CD155 Protein was determined by SDS-PAGE under reducing conditions with Coomassie Blue.