

**Recombinant Mouse Poliovirus Receptor Protein**

**Cat.NO.: TP05005**

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3th Edition

**Synonyms:**Poliovirus receptor; CD155 antigen; Nectin-like protein 5; Nectin-2; Tage4 receptor; Pvr; PVR; Necl5; CD155

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

**Form:**PBS

**Molecular Weight:**35.6 kDa

**Sequences:**Asp29-Leu348

**Purity:**> 95% by HPLC

**Concentration:**

**Endotoxin Level:**<1.0 EU per 1  $\mu$ g of protein (determined by LAL method)

**Storage:**Can be stored at +4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C. Avoid repeated freezing and thawing cycles.