

CD155/PVR Protein, Mouse, Recombinant (His)

General Information

Synonyms:	poliovirus receptor;D7Ertd458e;mE4;Taa1;necl-5;PVS;3830421F03Rik;HVED;CD155;Tage4
Protein Construction:	Asp29-Leu348
Species:	Mouse
Expression Host:	HEK293 Cells
Accession:	Q8K094-1
Molecular Weight:	35.9 kDa (predicted); 55-75 kDa (reducing condition, due to glycosylation)

QC Testing

Biological Activity:	Immobilized Mouse CD155, His Tag at 5µg/ml (100µl/Well) on the plate. Dose response curve for Mouse TIGIT, hFc Tag with the EC50 of 56.5ng/ml determined by ELISA (QC Test). Mouse CD155, His Tag immobilized on CM5 Chip can bind Mouse TIGIT, His Tag with an affinity constant of 4.00 µM as determined in SPR assay (Biacore T200). Loaded Mouse CD155, His Tag on Anti-His-Biosensor can bind Rat TIGIT, mFc Tag with an affinity constant of 6.93 nM as determined in BLI assay (Gator® Prime).
Purity:	≥ 95 % as determined by SDS-PAGE. ≥ 95 % as determined by SEC-HPLC.
Endotoxin:	< 1.0 EU/µg of the protein as determined by the LAL method.
Formulation:	Lyophilized from 0.22µm filtered solution in PBS (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization.

Preparation and Storage

Reconstitution:

Reconstitute the lyophilized protein in distilled water. The product concentration should not be less than 100 µg/ml. Before opening, centrifuge the tube to collect powder at the bottom. After adding the reconstitution buffer, avoid vortexing or pipetting for mixing.

Stability & Storage:

It is recommended to store recombinant proteins at -20°C to -80°C for future use. Lyophilized powders can be stably stored for over 12 months, while liquid products can be stored for 6-12 months at -80°C. For reconstituted protein solutions, the solution can be stored at -20°C to -80°C for at least 3 months. Please avoid multiple freeze-thaw cycles and store products in aliquots.

Actual storage temperature shall be subject to the COA.

Shipping:

In general, lyophilized powders are shipped with blue ice, while solutions are shipped with dry ice.

Protein Background

CD155, commonly known as PVR (poliovirus receptor) and Necl-5 (nectin-like molecule-5), is a type I

transmembrane single-span glycoprotein, and belongs to the nectins and nectin-like (Necl) subfamily. CD155 was originally identified based on its ability to mediate the cell attachment and entry of poliovirus (PV), an etiologic agent of the central nervous system disease poliomyelitis. The normal cellular function is in the establishment of intercellular adherens junctions between epithelial cells. CD155 may assist in an efficient humoral immune response generated within the intestinal immune system. It has been demonstrated that CD155 can be recognized and bond by DNAM-1 and CD96 which promote the adhesion, migration and NK-cell killing, and thus efficiently prime cell-mediated tumor-specific immunity. Cancer Immunotherapy Co-inhibitory Immune Checkpoint Targets Immune Checkpoint Immune Checkpoint Detection: ELISA Antibodies Immune Checkpoint Detection: FCM Antibodies Immune Checkpoint Detection: ICC Antibodies Immune Checkpoint Detection: IP Antibodies Immune Checkpoint Detection: WB Antibodies Immune Checkpoint Proteins Immune Checkpoint Targets Immunotherapy Targeted Therapy

Reference

- Freistadt MS, et al. (2000) Hematopoietic cells from CD155-transgenic mice express CD155 and support poliovirus replication ex vivo. *Microb Pathog.* 29(4): 203-12.
- Sato T, et al. (2004) Involvement of heterophilic trans-interaction of Necl-5/Tage4/PVR/CD155 with nectin-3 in formation of nectin- and cadherin-based adherens junctions. *Genes Cells.* 9(9): 791-9.
- Kakunaga S, et al. (2004) Enhancement of serum- and platelet-derived growth factor-induced cell proliferation by Necl-5/Tage4/poliovirus receptor/CD155 through the Ras-Raf-MEK-ERK signaling. *J Biol Chem.* 279(35): 36419-25.
- Sato T, et al. (2005) Common signaling pathway is used by the trans-interaction of Necl-5/Tage4/PVR/CD155 and nectin, and of nectin and nectin during the formation of cell-cell adhesion. *Cancer Sci.* 96(9): 578-89.
- Minami Y, et al. (2007) Involvement of up-regulated Necl-5/Tage4/PVR/CD155 in the loss of contact inhibition in transformed NIH3T3 cells. *Biochem Biophys Res Commun.* 352(4): 856-60.

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