

For maximal recovery of contents
please quick spin vial before opening

Human CD155(PVR)-muIg /Biotin Fusion Protein*

CATALOG#: 555-030

QUANTITY: 25 µg

CONCENTRATION: 0.5 mg/ml

A soluble molecule consisting of the extracellular domain of mature human CD155 fused to murine IgG2a Fc. Mature CD155(EC) (316aa):
dvvvqaptvpgflgdsvtlpcylqvpnmvevthvsqiltwarhgesgsmavfhqtqgpsysekrlefvaaarlgaelnaslrnmfgrvedegnytcifvtfpqqsrsvdiwrlvklpqqntaevqkvltgepvpm
arcvstggrppaqitwhsdllgmpntsqvpgflsgvtvtlswilvpsqvdknvtckvehesfekpqltvtlvyppvevsisgydnwylgqneatftcdarsnpeptgynwstmgplppfavaqgaqlir
pvdtkpintflcivtnalgarqaeltvqvkegppsehsgteha

Linking amino acids (2aa): **tr**

Murine IgG2aFc (233aa):

eprgptikpcppckcpapnllggpsvffppkikdlvmislsipvtcvvvdvsseddpdqiswfvnmnevhtaqtqthredynstlrvsalpiqhqdwmmsgkefkckvnmkdlpapiertiskpgksvrapqvy
vlpppeemtkkqvltlcmvtdfmpediyyewttnngkltelnykntepvltdsgsyfmysklrvekknwvemsyscvvhglnhhhtkfsrtpgk

Predicted nonglycosylated monomeric weight: 61kd. .

Transfectant Cell Line: CHO

INFORMATION: Human CD155 (Polio Virus Receptor, PVR, Necl-5) is a 70 kd type I Ig superfamily molecule (1). It is involved in formation of intracellular junctions between epithelial cells. Its ligands include CD226(DNAM-1), and CD96(TACTILE). CD155 expression by tumor has been shown to be upregulated by Nitric Oxide(2). High CD155 expression has recently been exploited to use engineered poliovirus to treat glioblastoma. (3)

References: 1) Medelsohn CL, Racaniello VR, et al. (1989) *Cell* **56**(5): 855-65. 2) C Fionda, M Cippitelli, et al. (2015) *BMC Cancer* **15**(1):17 PMID 25609078. 3) Gromeier M, Bigner D, et al. (2014) *Neuro-Oncology* **16**(supp3): iii41.

STORAGE CONDITIONS: Store at 2 - 5°C. Freeze/Thawing is not recommended.

PRODUCT STABILITY: Product should retain activity for at least 6 months after shipping date when stored as recommended. Ship Date: _____

BUFFER: 50 mM Sodium Phosphate pH 7.5, 100 mM Potassium Chloride, 150mM NaCl, 5% Glycerol, 0.2% BSA, 0.04% NaN₃ (as a preservative).

PRODUCTION: Human CD155-muIg fusion protein was Protein A purified from (low FBS containing) tissue culture supernatant of CHO transfectants, and reacted with NHS-Biotin. Unconjugated Biotin was removed from conjugate by desalting column.

PERFORMANCE: CD155-muIg/Biotin was tested for *FACS binding to stimulated human PBL*. Ficoll prepared human PBMC were stimulated 5 days in culture with 5 µg/ml PHA. Cells were then harvested, washed, and pre incubated 10 minutes with 300 µg/ml human Ig (to reduce nonspecific binding) after which they were incubated 45 minutes on ice with 80 ul of CD155-muIg/Biotin at **10 µg/ml**. They were then washed twice and incubated with 2° detector Streptavidin/PE (Catalog #253-050), after which they were washed twice, fixed and analyzed by FACS using a lymphoid gate. Cells stained positive with a mean shift of **0.46 log₁₀ fluorescent units** when compared to background.

*Research use only. Not for use in Diagnostic procedures

Binding of CD155-muIg/Biotin +SA/PE to stimulated human PBL

