PERFORMANCE DATA SHEET 2618 Human TIGIT-muIg/Biotin *Fusion Protein**



For maximal recovery of contents please quick spin vial before opening

CATALOG#: 556-030 QUANTITY: 25 μg

CONCENTRATION: 0.25 mg/ml

Molecular Structure: A soluble molecule consisting of the extracellular domain of mature human TIGIT fused to murine IgG2a Fc. Residual signal peptide amino acids (7aa): **kpqapel** Mature TIGIT(EC) (118aa):

(22)mmtgtiettgnisaekggsiilqchlssttaqvtqvnweqqdqllaicnadlgwhispsfkdrvapgpglgltlqsltvndtgeyfciyhtypdgtytgriflevlessvaehgarfq(139) Linking amino acids (2aa): fq

Murine IgG2aFc (233aa):

eprgptikpcppckcpapnllggpsvfifppkikdvlmislspivtcvvvdvseddpdvqiswfvnnvevhtaqtqthredynstlrvvsalpiqhqdwmsgkefkckvnnkdlpapiertiskpkgsvrapqvy vlpppeeemtkkqvtltcmvtdfmpediyvewtnngktelnykntepvldsdgsyfmysklrvekknwvernsyscsvvheglhnhhttksfsrtpgk

Predicted nonglycosylated monomeric weight: 40 kd. TIGIT-muIg runs as a dimer in SDS-PAGE with a molecular weight of approximately 100 kD.

Transfectant Cell Line: CHO

INFORMATION: Human TIGIT (T cell immunoreceptor with Ig and ITIM domains) is a coinhibitory receptor expressed by activated T cells, memory T cells, Treg cells and NK cells. It binds of CD155(PVR) and less avidly to CD112(PVRL2). **References: 1**) Dougall WC, AC Anderson, et al. (2017) *Immunol Rev* **276**(1): 112-120. doi: 10.1111/imr.12518 PMID: 28258695.

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

PRODUCT STABILITY: Product should retain activity for at least 12 months after shipping date when stored as recommended. Ship Date:_____

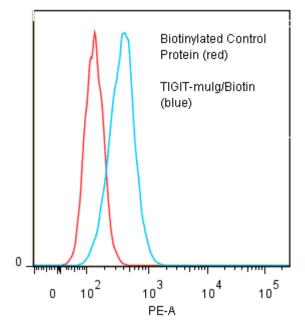
BUFFER: 50 mM Sodium Phosphate pH 7.5, 100 mM Potassium Chloride, 150mM NaCl, 5% Glycerol, 0.2% BSA, 0.04% NaN₃ (as a preservative).

PRODUCTION: Human TIGIT-muIg fusion protein from tissue culture supernatant of CHO cell transfectants was Protein A purified to >95% by SDS-PAGE (<1% bovine immunoglobulin), and reacted with NHS-Biotin. Unconjugated Biotin was removed from conjugate using a desalting column.

PERFORMANCE: Five x 10^5 cultured **U-937** human tumor cells were washed and pre incubated 10 minutes with 20ul of 300ug/ml human IgG (to reduce non specific binding), after which they were incubated 45 minutes on ice with 80 µl of TIGIT-muIg/Biotin at a concentration of **5 µg/ml**. Cells were washed twice and incubated with 2° reagent Streptavidin/R-Phycoerythrin (Catalog #253-050), after which they were washed twice, fixed and analyzed by FACS. Cells stained positive with a mean shift of **0.46** log₁₀ fluorescent units when compared to Recombinant muIgFc/Biotin negative control (Catalog #581-030). Binding was blocked when reagent was pre incubated with a >10 fold excess of recombinant CD155-muIg (Catalog #555-020).

* Research Use Only. Not for use in Diagnostic procedures.

Binding of TIGIT-mulg/Biotin +SA/PE to human U-937 cells



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