PERFORMANCE DATA SHEET
2539

For maximal recovery of contents please quick spin vial before opening

Human TIGIT-muIg Fusion Protein*

CATALOG#: 556-020
QUANTITY: 25 μg **CONCENTRATION: 0.5 mg/ml**

Molecular Structure: A soluble molecule consisting of the extracellular domain of mature human TIGIT fused to murine IgG2a Fc.
Residual signal peptidce 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
kd type I Ig superfamily molecule (1).1 It is involved in formation of intracellular junctions between epithelial cells. Its ligands include
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 ot 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^{o}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, 0.5mg/ml Gentamicin Sulfate (as a preservative).

PRODUCTION: Human TIGIT-muIg fusion protein was purified from (low FBS containing) tissue culture supernatant of CHO transfectants using Protein A and size exclusion chromatography. Product was 0.2μ sterile filtered and vialed under aseptic conditions.

PERFORMANCE: Human TIGIT-muIg is reactive in EIA utilizing GAM capture and detection with recombinant CD155-muIg/Biotin(Cat#555-030) and SA/HRP.
TIGIT-muIg was tested for *FACS binding* to human **U-937** cells. Five x 10^5 cells per tube were washed and pre incubated 10 minutes with 300ug/ml human Ig (to reduce nonspecific binding) after which they were incubated 45 minutes on ice with 80 ul of TIGIT-muIg at **10 μg/ml**. Cells were then washed twice and incubated with 2^{o} detector Goat anti-Mouse/FITC (Catalog #232-011) , after which they were washed three times, fixed and analyzed by FACS using a lymphoid gate. Cells stained positive with a mean shift of **0.57** $\log_{10}$ fluorescent units when compared to background.
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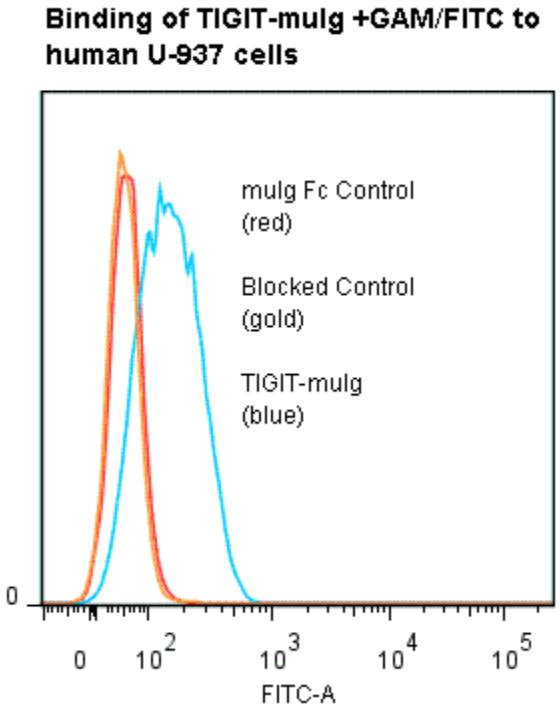
Research use only. Not for use in Diagnostic procedures.



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