

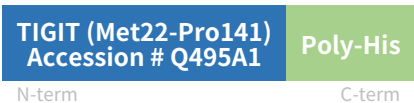
Rev03
Update: Dec,14,2021

DATASHEET

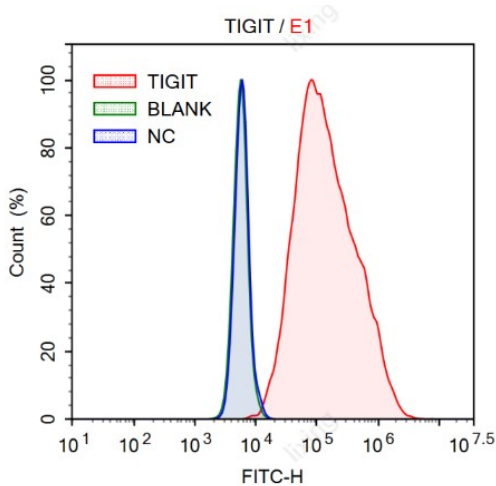
TIGIT, His, Human

Cat. No.: Z03457

Product Introduction

Species	Human
Protein Construction	
Purity	> 90% as analyzed by SDS-PAGE
Endotoxin Level	< 1 EU/μg of protein by gel clotting method
Biological Activity	This proten can bind with CHO-K1/aAPC/CD155 Clone by FACS analysis.
Expression System	HEK 293+J15
Apparent Molecular Weight	~16.0 kDa, on SDS-PAGE under reducing conditions.
Formulation	Lyophilized from a 0.2 μm filtered solution in PBS.
Reconstitution	It is recommended that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Reconstitute the lyophilized powder in ddH ₂ O or PBS up to 100 μg/ml.
Storage & Stability	Upon receiving, this product remains stable for up to 6 months at lower than -70°C. Upon reconstitution, the product should be stable for up to 1 week at 4°C or up to 3 months at -20°C. For long term storage it is recommended that a carrier protein (example 0.1% BSA) be added. Avoid repeated freeze-thaw cycles.

Examples



FACS analysis of TIGIT, His, Human (Cat. No: Z03457) with CHO-K1/aAPC/CD155 Clone (CHO-K1 cell overexpressing human CD155), compared with blank control (green line, untreated cell) and negative control (blue line, only treated with THE™ His Tag Antibody [iFluor 488], mAb, Mouse (Cat. No. A01800)), TIGIT, His, Human can bind with CHO-K1/aAPC/CD155 Clone.

Background

Target Background : T cell immunoreceptor with Ig and ITIM domains (TIGIT) is an immune receptor present on some T cells and natural killer cells (NK). This protein could bind to CD155 (PVR) with high affinity, which causes increased secretion of IL-10 and decreased secretion of IL-12B and suppresses T-cell activation by promoting the generation of mature immunoregulatory dendritic cells. TIGIT could also bind to CD112 (PVRL2) with lower affinity. TIGIT's inhibition of NK cytotoxicity can be blocked by antibodies against its interaction with PVR and the activity is directed through its ITIM domain.

Synonyms : VSIG9, VSTM3, WUCAM, T-cell immunoreceptor with Ig and ITIM domains, T cell immunoreceptor with Ig and ITIM domains

For laboratory research use only. Direct human use, including taking orally and injection and clinical use are forbidden.