TIGIT Antibody / VSTM3 / VSIG9 [clone TIGIT/3018] (V5688)

Catalog No.	Formulation	Size
V5688-100UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced), 0.05% sodium azide	100 ug
V5688-20UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced), 0.05% sodium azide	20 ug
V5688SAF-100UG	1 mg/ml in 1X PBS; BSA free, sodium azide free	100 ug

Bulk quote request

Availability	1-3 business days
Species Reactivity	Human
Format	Purified
Clonality	Monoclonal (mouse origin)
Isotype	Mouse IgG2c, kappa
Clone Name	TIGIT/3018
Purity	Protein A/G affinity
UniProt	Q495A1
Localization	Cell membrane, Cell surface
Applications	ELISA :
Limitations	This TIGIT antibody is available for research use only.
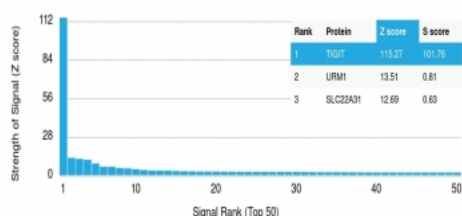
Analysis of HuProt(TM) microarray containing more than 19,000 full-length human proteins using TIGIT antibody (clone TIGIT/3018). These results demonstrate the foremost specificity of the TIGIT/3018 mAb. Z- and S- score: The Z-score represents the strength of a signal that an antibody (in combination with a fluorescently-tagged anti-IgG secondary Ab) produces when binding to a particular protein on the HuProt(TM) array. Z-scores are described in units of standard deviations (SD's) above the mean value of all signals generated on that array. If the targets on the HuProt(TM) are arranged in descending order of the Z-score, the S-score is the difference (also in units of SD's) between the Z-scores. The S-score therefore represents the relative target specificity of an Ab to its intended target.
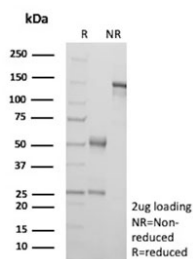
SDS-PAGE analysis of purified, BSA-free TIGIT antibody (clone TIGIT/3018) as confirmation of integrity and purity.

Description

TIGIT is a checkpoint inhibitor which binds with high affinity to the poliovirus receptor (PVR), causing increased IL10 secretion, decreased IL12B secretion. TIGIT binding to PVR also causes the suppression of T cell activation by promoting the generation of mature immuno-regulatory dendritic cells. It is expressed at low levels on natural killer (NK) cells, as well as peripheral memory and regulatory CD4+ T cells. At the protein level, it is upregulated following the activation of these cells. Functionally, TIGIT is similar to CTLA4. The ligands for TIGIT include CD155 (signal abrogation) and CD226 (signal stimulation). It has been demonstrated to be upregulated on T cells in many cancers and is an immuno-oncology target for therapy.

Application Notes

Optimal dilution of the TIGIT antibody should be determined by the researcher.

Immunogen

A portion of amino acids 22-141 from human TIGIT protein was used as the immunogen for the TIGIT antibody.

Storage

Aliquot the TIGIT antibody and store frozen at -20oC or colder. Avoid repeated freeze-thaw cycles.