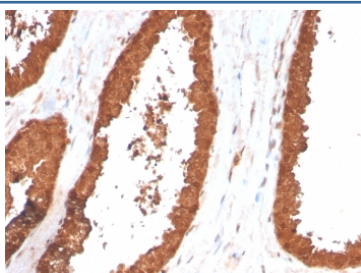


TIGIT Antibody / VSTM3 / VSIG9 [clone TIGIT/3017] (V7583)

Catalog No.	Formulation	Size
V7583-100UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide	100 ug
V7583-20UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide	20 ug
V7583SAF-100UG	1 mg/ml in 1X PBS; BSA free, sodium azide free	100 ug
V7583IHC-7ML	Prediluted in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide; *For IHC use only*	7 ml

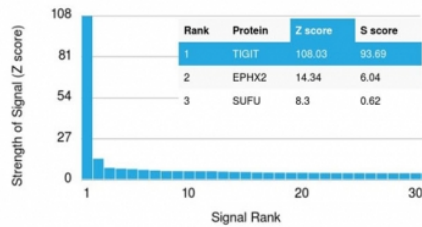
Bulk quote request

Availability	1-3 business days
Species Reactivity	Human
Format	Purified
Clonality	Monoclonal (mouse origin)
Isotype	Mouse IgG2c, kappa
Clone Name	TIGIT/3017
Purity	Protein G affinity chromatography
UniProt	Q495A1
Applications	ELISA (order BSA/sodium Azide-free Format For Coating) : Flow Cytometry : 1-2ug/million cells Immunohistochemistry (FFPE) : 1-2ug/ml for 30 min at RT
Limitations	This TIGIT antibody is available for research use only.

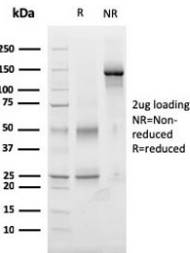


IHC staining of FFPE human prostate carcinoma with TIGIT antibody (clone TIGIT/3017). HIER: boil tissue sections in pH6, 10mM citrate buffer, for 10-20 min and allow to cool before testing.

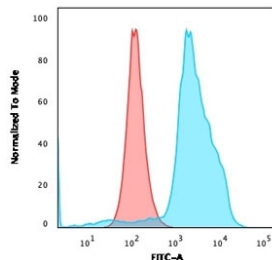
Human Protein Microarray Specificity Validation



Analysis of HuProt(TM) microarray containing more than 19,000 full-length human proteins using TIGIT antibody (clone TIGIT/3017). These results demonstrate the foremost specificity of the TIGIT/3017 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/3017) as confirmation of integrity and purity.



Flow cytometry testing of PFA-fixed human MOLT-4 cells with TIGIT antibody; Red=isotype control, Blue= TIGIT antibody.

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 recombinant human TIGIT protein fragment within amino acids 22-141 was used as the immunogen for the TIGIT antibody.

Storage

Store the TIGIT antibody at 2-8oC (with azide) or aliquot and store at -20oC or colder (without azide).

