

Mouse anti-Human TIGIT/VSTM3/VSIG9 Monoclonal Antibody | anti-TIGIT antibody

TIGIT/VSTM3/VSIG9 (Immune Checkpoint for Cancer)

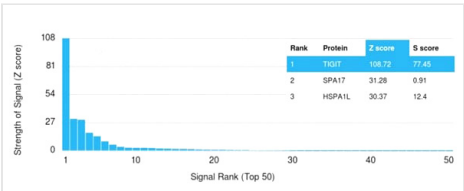
CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA214939	Mouse	Human	Immunohistochemistry, ELISA

PRODUCT SYNONYMS

TIGIT/VSTM3/VSIG9; Monoclonal Antibody; TIGIT/VSTM3/VSIG9 (Immune Checkpoint for Cancer); T-cell immunoreceptor with Ig and ITIM domains; V-set and immunoglobulin domain containing 9 (VSIG9); V-set and transmembrane domain containing 3 (VSTM3); Washington University Cell Adhesion Molecule (WUCAM); anti-TIGIT antibody

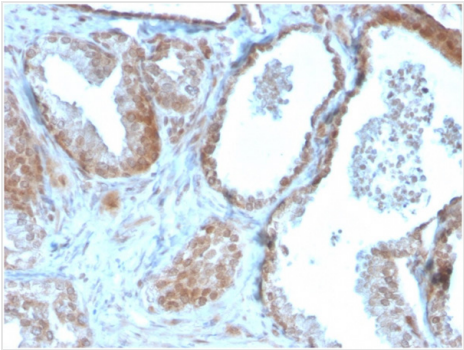
PRODUCT SPECIFICATIONS

Host	Mouse
Reactivity	Human
Clonality	Monoclonal
Isotype	IgG2b, kappa
Clone Number	TIGIT/3106
Specificity	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 a immuno-oncology target for therapy.
Purity/Purification	Purified Ab with BSA and Azide at 200ug/ml OR Purified Ab WITHOUT BSA and Azide at 1.0mg/ml
Form/Format	200ug/ml of Ab Purified from Bioreactor Concentrate by Protein A/G. Prepared in 10mM PBS with 0.05% BSA & 0.05% azide. Also available WITHOUT BSA & azide at 1.0mg/ml.
Sequence Length	244
Applicable Applications for anti-TIGIT antibody	IHC (Immunohistochemistry), ELISA
Positive Control	Tonsil or Prostate Carcinoma.
Immunogen	Recombinant fragment (around aa 22-141) of human TIGIT protein (exact sequence is proprietary)
Cellular Localization	Cell Surfaceand Cytoplasmic
Hu-chromosome Location	3q13.31
Preparation and Storage	Antibody with azide: store at 2 to 8 degree C. Antibody without azide: store at -20 to -80 degree C. Antibody is stable for 24 months. Non-hazardous. No MSDS required.



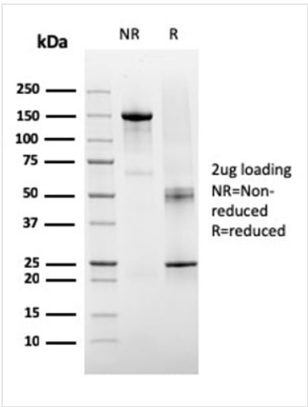
Application Data

Analysis of Protein Array containing more than 19,000 full-length human proteins using TIGIT-Monospecific Mouse Monoclonal Antibody (TIGIT/3106). Z- and S- Score: The Z-score represents the strength of a signal that a monoclonal antibody (Monoclonal Antibody) (in combination with a fluorescently-tagged anti-IgG secondary antibody) produces when binding to a particular protein on the HuProtTM array. Z-scores are described in units of standard deviations (SD's) above the mean value of all signals generated on that array. If targets on HuProtTM are arranged in descending order of the Z-score, the S-score is the difference (also in units of SD's) between the Z-score. S-score therefore represents the relative target specificity of a Monoclonal Antibody to its intended target. A Monoclonal Antibody is considered to specific to its intended target, if the Monoclonal Antibody has an S-score of at least 2.5. For example, if a Monoclonal Antibody binds to protein X with a Z-score of 43 and to protein Y with a Z-score of 14, then the S-score for the binding of that Monoclonal Antibody to protein X is equal to 29.



IHC (Immunohistochemistry)

Formalin-fixed, paraffin-embedded human Prostate Carcinoma stained with TIGIT-Monospecific Mouse Monoclonal Antibody (TIGIT/3106).



SDS-PAGE

SDS-PAGE Analysis Purified TIGIT-Monospecific Mouse Monoclonal Antibody (TIGIT/3106). Confirmation of Integrity and Purity of Antibody.

ADDITIONAL INFORMATION

References	1. Johnston et al., The Immunoreceptor TIGIT Regulates Antitumor and Antiviral CD8+ T Cell Effector Function, CancerCell (2014). 2. Dougall WC, et al. TIGIT and CD96: New checkpoint receptor targets for cancer immunotherapy. Immunol Rev. 2017;276: 112-120.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	256600228
NCBI GeneID	201633
NCBI GenBank Nucleotide #	NP_776160.2
UniProt Accession #	Q495A1
Molecular Weight	26kDa
NCBI Official Full Name	T-cell immunoreceptor with Ig and ITIM domains
NCBI Official Synonym Full Names	T cell immunoreceptor with Ig and ITIM domains
NCBI Official Symbol	TIGIT
NCBI Official Synonym Symbols	VSIG9; VSTM3; WUCAM
NCBI Protein Information	T-cell immunoreceptor with Ig and ITIM domains

UniProt Protein Name	T-cell immunoreceptor with Ig and ITIM domains
UniProt Gene Name	TIGIT
UniProt Synonym Gene Names	VSIG9; VSTM3

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/monoclonal/tigit-vstm3-vsigt9-antibody-clone-tigit-3106-immunohistochemistry-elisa/214939>