Mouse anti-Human TIGIT Monoclonal Antibody | anti-TIGIT antibody

TIGIT Antibody [4A12]

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA11006	**Mouse**	**Human**	**ELISA, Western Blot, Immunohistochemistry, Immunocytochemistry, Immunofluorescence, Flow Cytometry, Functional Assay**

PRODUCT SYNONYMS

TIGIT; Monoclonal Antibody; TIGIT Antibody [4A12]; T-cell immunoreceptor with Ig and ITIM domains; VSIG9; VSTM3; WUCAM; anti-TIGIT antibody

PRODUCT SPECIFICATIONS

Host	Mouse
Reactivity	Human
Clonality	Monoclonal
Isotype	IgG1
Clone Number	4A12
Purity/Purification	Protein A purified
Form/Format	Liquid Supplied in PBS containing 0.02% sodium azide.
Concentration	1 mg/mL (varies by lot)
Sequence Length	244
Applicable Applications for anti-TIGIT antibody	ELISA, WB (Western Blot), IHC (Immunohistochemistry), ICC (Immunocytochemistry), IF (Immunofluorescence), FCM/FACS (Flow Cytometry)
Application Notes	IHC starting at 2 ug/mL IF start at 1 ug/mL FC/FACS at 1 ug/ml ICC at 1 ug/mL WB at 1 ug/mL Antibody validated: Western Blot in human samples; Immunohistochemistry in human samples; Immunocytochemistry in human samples; Immunofluorescence in human samples and Flow Cytometry in human samples. All other applications and species not yet tested.
Immunogen	TIGIT antibody was raised against the extracellular domain of human TIGIT
Conjugate	Unconjugated
Preparation and Storage	Store at 4 degree C for three months and -20 degree C, stable for up to one year. As with all antibodies care should be taken to avoid repeated freeze thaw cycles. Antibodies should not be exposed to prolonged high temperatures.

IMAGES

ELISA
Titration curve analysis of TIGIT mAbs to detect recombinant TIGIT in ELISA at decreasing concentrations.

FCM (Flow Cytometry)
Flow cytometry analysis of TIGIT over expressing HEK293 cells using TIGIT antibody at 1 μg/ml. Blue: untransfected HEK293 cells. Yellow: TIGIT over expressing HEK293 cells.

IHC (Immunohistochemistry)
Immunohistochemistry of TIGIT in human stomach carcinoma tissue using TIGIT Antibody and control mouse IgG (corner box) at 2 μg/ml.

IF (Immunofluorescence)
Immunofluorescence of TIGIT in human stomach carcinoma tissue using TIGIT Antibody at 5 μg/ml.Green: TIGIT Antibody [4A12]Blue: DAPI staining

IF (Immunofluorescence)
Immunofluorescence of TIGIT in over expressing HEK293 cells using TIGIT Antibody at 1 μg/ml.Green: TIGIT Antibody [4A12]Blue: DAPI staining

ICC (Immunocytochemistry)
Immunocytochemistry of TIGIT in over expressing HEK293 cells using TIGIT antibody and control mouse IgG antibody (left corner box) at 1 μg/ml.

ADDITIONAL INFORMATION

Related Product Information for anti-TIGIT antibody	The T cell immunoreceptor with Ig and ITIM domains (TIGIT) is a member of the PVR (poliovirus receptor) family of immunoglobin proteins. It is expressed on several classes of T cells including follicular B helper T cells (TFH). TIGIT has been shown to bind PVR with high affinity; this binding is thought to assist interactions between TFH and dendritic cells to regulate T cell dependent B cell responses (1). Similar to other immune checkpoint proteins such as PD-1, TIGIT is upregulated on exhausted T cells in chronic viral infections and cancer. Blockade of both TIGIT and PD-1 pathways leads to tumor rejection in mice suggesting that it may be of therapeutic use against cancer (2).
Product Categories/Family for anti-TIGIT antibody	Immunology
References	Stanietsky N, Simic H, Arapovic J, et al. The interaction of TIGIT with PVR and PVRL2 inhibits human NK cell cytotoxicity. Proc Natl Acad Sci USA 2009; 106:17858-63. Johnston RJ, Comps-Agrar L, Hackney J, et al. The immunoreceptor TIGIT regulates antitumor and antiviral CD8(+) T cell effector function. Cancer Cell 2014; 26:923-37.

NCBI AND UNIPROT INFORMATION

NCBI GI #	256600228
NCBI GeneID	201633
NCBI Accession #	NP_776160
NCBI GenBank Nucleotide #	NM_173799.3
UniProt Accession #	Q495A1; Q495A3; Q5JPD8; Q6MZS2; Q8N877
Molecular Weight	Predicted: 26 kDa Observed: 47 kDa
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-antibody-clone-4a12-western-blot-immunohistochemistry-immunocytochemistry-immunofluorescence-flow-cytometry-elisa/11006