TIGIT recombinant antibody

TIGIT Single Domain Antibody [2D7]

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA11054	**Llama**	**Human**	**ELISA, Immunohistochemistry, Immunocytochemistry, Immunofluorescence, Flow Cytometry, Functional Assay**

PRODUCT SYNONYMS

TIGIT; Monoclonal Recombinant Antibody; TIGIT Single Domain Antibody [2D7]; TIGIT Antibody: T-cell immunoreceptor with Ig and ITIM domains; VSIG9; VSTM3; WUCAM; T-cell immunoreceptor with Ig and ITIM domains; TIGIT recombinant antibody

PRODUCT SPECIFICATIONS

Host	Llama
Reactivity	Human
Clonality	Monoclonal
Clone Number	2D7
Purity/Purification	TIGIT Antibody is affinity chromatography purified via Nickel column. Antibody is supplied as a His-tagged purified protein. It also contains a myc-tag for detection.
Form/Format	Liquid; TIGIT Antibody is supplied in PBS.
Concentration	1mg/mL (varies by lot)
Applicable Applications for TIGIT recombinant antibody	ELISA, IHC (Immunohistochemistry), ICC (Immunocytochemistry), IF (Immunofluorescence), FCM/FACS (Flow Cytometry)
Application Notes	TIGIT antibody can be used for ELISA starting at 0.1ug/mLimmunohistochemistry starting at 10ug/mL. For immunofluorescence start at 20ug/mL. For flow cytometry at 1ug/ml. For immunocytochemistry at 10ug/mL.
Immunogen	TIGIT antibody was raised against a recombinant protein corresponding to amino acids 22-141 of human TIGIT.
Research Area	Immunology
NCBI Organism	Homo sapiens
Preparation and Storage	TIGIT antibody should be stored in working aliquots at -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

FCM (Flow Cytometry)
Flow cytometry analysis of TIGIT overexpressing HEK293 cells using TIGIT single domain antibody and control 1H4 single domain antibody at 0.05ug/ml. Blue: Untransfected HEK293 cells. Yellow: TIGIT overexpressing HEK293 cells.

IHC (Immunohistochemistry)
Immunohistochemistry of TIGIT in human spleen tissue with TIGIT single domain antibody at 1ug/mL.

ELISA
Titration ELISA analysis of TIGIT sdAbs to detect recombinant TIGIT (extracellular domain) coated at 1 ug/mL. sdAbs are detected with a mouse mAb against a C-terminal myc-tag followed by a goat anti-mouse IgG-HRP conjugate.

IF (Immunofluorescence)
Immunofluorescence of TIGIT in human spleen tissue with TIGIT single domain antibody at 20ug/mL.

IF (Immunofluorescence)
Immunofluorescence of TIGIT in transfected HEK293 cells with TIGIT single domain antibody at 20ug/mL.

ICC (Immunocytochemistry)
Immunocytochemistry of TIGIT in transfected HEK293 cells with TIGIT single domain antibody at 10ug/mL.

ADDITIONAL INFORMATION

Related Product Information for TIGIT recombinant antibody	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 TIGIT recombinant antibody	Primary Antibodies
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
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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