TIGIT Antibody – Mouse Monoclonal

PRODUCT OVERVIEW

Product Name	TIGIT, Monoclonal Antibody
Full Product Name	TIGIT monoclonal antibody (4A12)
Product Gene Name	anti-TIGIT antibody
Clonality	Monoclonal
Isotype	IgG1
Clone Number	4A12
Host	Mouse
Species Reactivity	Human
Form/Format	Liquid. In PBS, with 0.02% sodium azide and 50% glycerol
Purity/Purification	Protein A affinity purified
Preparation and Storage	For long term storage, store at -20 degree C. Avoid freeze/thaw cycles Shipping: Shipped on Blue Ice
Molecular Weight	18,432 Da
OMIM	AK097192 mRNA
3D Structure	ModBase 3D Structure for Q495A1
Immunogen	Extracellular domain of human TIGIT
Product Categories/Family for anti-TIGIT antibody	Cellular Analysis; Cell Signaling
Applications Tested/Suitable for anti-TIGIT antibody	Flow Cytometry (FC/FACS), Immunocytochemistry (ICC), Immunofluorescence (IF), Immunohistochemistry (IHC) Paraffin, Western Blot (WB)
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. 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.
Other Notes	Small volumes of anti-TIGIT antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for TIGIT purchase	MBS567142 is an antibody targeting TIGIT. Also known as TIGIT monoclonal antibody (4A12). Reactive in Human. Host: Mouse.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for TIGIT. It may not necessarily be applicable to this product.

NCBI GI #	121943253
NCBI GeneID	201633
NCBI Accession #	Q495A1.1

UniProt Primary Accession #	Q495A1
UniProt Secondary Accession #	Q495A3; Q5JPD8; Q6MZS2; Q8N877
UniProt Related Accession #	Q495A1
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
UniProt Protein Name	T-cell immunoreceptor with Ig and ITIM domains
UniProt Synonym Protein Names	V-set and immunoglobulin domain-containing protein 9; V-set and transmembrane domain-containing protein 3
Protein Family	T-cell immunoreceptor with Ig and ITIM domains
UniProt Gene Name	TIGIT
UniProt Synonym Gene Names	VSIG9; VSTM3
NCBI Protein Information	T-cell immunoreceptor with Ig and ITIM domains
NCBI Summary for TIGIT	This gene encodes a member of the PVR (poliovirus receptor) family of immunoglobin proteins. The product of this gene is expressed on several classes of T cells including follicular B helper T cells (TFH). The protein 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.[provided by RefSeq, Sep 2009]
UniProt Comments for TIGIT	Binds with high affinity to the poliovirus receptor (PVR) which causes increased secretion of IL10 and decreased secretion of IL12B and suppresses T-cell activation by promoting the generation of mature immunoregulatory dendritic cells.
Research Articles on TIGIT	**1.** TIGIT contributes to functional T-cell impairment and associates with poor clinical outcome in acute myelogenous leukemia. The study suggests that blockade of TIGIT to restore T-cell function and antitumor immunity may represent a novel effective leukemia therapeutic.
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