



Human Anti-Human TIGIT Monoclonal Antibody, clone hTIGIT (CABT-Z740H)

This product is for research use only and is not intended for diagnostic use.

PRODUCT INFORMATION

Product Overview	This antibody is a recombinant mAb featuring a variable region that recognizes human TIGIT, and the constant region of the human IgG1 isotype.
Specificity	Targets cells expressing human TIGIT
Immunogen	Human TIGIT.
Isotype	IgG1, κ
Source/Host	Human
Species Reactivity	Human
Clone	hTIGIT
Purification	Protein G purified
Conjugate	Unconjugated
Applications	BI, BL, FC
Reconstitution	Reconstitute with 500 µl sterile water before use.
Format	Lyophilized
Size	100 µg
Buffer	0.2 µm filtered solution in a sodium phosphate buffer with glycine, saccharose, and stabilizing agents.
Preservative	None

Storage	Product is shipped at room temperature. Store lyophilized antibody at -20°C. Lyophilized product is stable for at least 1 year. Reconstituted antibody is stable for 1 month when stored at 4°C and for 1 year when aliquoted and stored at -20°C. Avoid repeated freeze-thaw cycles.
Ship	Wet ice

BACKGROUND

Introduction	TIGIT (T cell immunoglobulin and ITIM domain) is an inhibitory checkpoint that has been implicated in tumor immunosurveillance. TIGIT is specifically expressed on immune cells including, natural killer (NK) cells and a range of T cell subsets. TIGIT binds to CD155 (PVR) and CD112 (PVRL2, nectin-2), which are expressed on antigen-presenting cells (APCs), T cells, and a variety of non-hematopoietic cells including tumor cells. Interestingly, TIGIT competes with CD226 (also known as DNAM-1) and CD96 (also known as Tactile) for the same ligands. Upon binding to its ligand, phosphorylation of TIGIT inhibits the NF-κB, P13K, and MAPK pathways, and leads to a strong reduction of NK cytotoxicity as well as inhibition of T cell activation, proliferation, and effector functions.
Keywords	TIGIT;T cell immunoreceptor with Ig and ITIM domains;V set and immunoglobulin domain containing 9;V set and transmembrane domain containing 3;VSIG9, VSTM3;T-cell immunoreceptor with Ig and ITIM domains

GENE INFORMATION

Gene Name	TIGIT
Entrez Gene ID	201633
UniProt ID	Q495A1
