

Mouse TIGIT Alexa Fluor® 750-conjugated Antibody

Antigen Affinity-purified Polyclonal Sheep IgG Catalog Number: AF7267S

100 µg

Species Reactivity	Mouse	
Specificity	Detects mouse TIGIT in direct ELISAs. In direct ELISAs, less than 5% cross-reactivity with recombinant human TIGIT is observed.	
Source	Polyclonal Sheep IgG	
Purification	Antigen Affinity-purified	
Immunogen	Mouse myeloma cell line NS0-derived recombinant mouse TIGIT Gly26-Thr143 Accession # NP_001139797	
Conjugate	Alexa Fluor 750 Excitation Wavelength: 749 nm Emission Wavelength: 775 nm	
Formulation	Supplied 0.2mg/ml in 1X PBS with RDF1 and 0.09% Sodium Azide	
	*Contains <0.1% Sodium Azide, which is not hazardous at this concentration according to GHS classifications. Refer to the Safety Data St (SDS) for additional information and handling instructions.	

APPLICATIONS		
Please Note: Optimal dilutions should be determined by each laboratory for each application. General Protocols are available in the Technical Information section on our website.		
CyTOF-ready	Optimal dilution of this antibody should be experimentally determined.	
Flow Cytometry	Optimal dilution of this antibody should be experimentally determined.	
Immunohistochemistry	Optimal dilution of this antibody should be experimentally determined.	

PREPARATION AND STORAGE	
Shipping	The product is shipped with polar packs. Upon receipt, store it immediately at the temperature recommended below.
Stability & Storage	Protect from light. Do not freeze. 12 months from date of receipt, 2 to 8 °C as supplied

BACKGROUND

TIGIT (T cell Immunoreceptor with Ig and ITIM domains; also Vstm3 and Vsig9) is a 30-34 kDa (in human) member of the CD28 family, Ig superfamily of molecules. It is expressed by NK cells and multiple subsets of mature T cells, and binds to PVR/CD155 and PVR2/CD112 that appear on dendritic cells (DC) and endothelium. Along with CD226, the TIGIT:CD226/DNAM1 and PVR:PVR2 pairings appear to form a network that parallels the well-characterized B7-1:B7-2 and CD28:CTLA4 system. Binding of TIGIT by DC induces DC IL-10 release and inhibits IL-12 production. Ligation of TIGIT on T cells dampens TCR-mediated activation, while NK cell TIGIT ligation blocks NK cell cytotoxicity. Mature mouse TIGIT is a type I transmembrane protein 215 amino acids (aa) in length. It contains a 116 aa extracellular region (aa 26-141) with a V-type Ig-like domain (aa 27-125), and a 79 aa cytoplasmic domain with one ITIM motif. There is one isoform variant that is quite unusual and shows an addition of nine amino acids spread over three insertion sites (SwissProt #:P86176). Mouse and human TIGIT are highly divergent, and over aa 26-143, mouse TIGIT shares only 68% aa sequence identity with human TIGIT.

PRODUCT SPECIFIC NOTICES

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