

## Cynomolgus Monkey TIGIT Alexa Fluor® 350-conjugated Antibody

Recombinant Monoclonal Rabbit IgG Clone # 2629A Catalog Number: FAB10532U

100 µg

Species Reactivity	Cynomolgus Monkey		
Specificity	Detects Cynomolgus Monkey TIGIT in direct ELISAs.		
Source	Recombinant Monoclonal Rabbit IgG Clone # 2629A		
Purification	Protein A or G purified from cell culture supernatant		
Immunogen	Human embryonic kidney cell HEK293-derived Cynomolgus monkey TIGIT Met22-Pro142 Accession # XP_00554815		
Conjugate	Alexa Fluor 350 Excitation Wavelength: 346 nm Emission Wavelength: 442 nm		
Formulation	Supplied 0.2 mg/mL in a saline solution containing BSA and Sodium Azide.		

\*Contains <0.1% Sodium Azide, which is not hazardous at this concentration according to GHS classifications. Refer to the Safety Data Sheet (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.			
	Recommended Concentration	Sample	
Flow Cytometry	0.25 <b>-</b> 1 µg/10 <sup>6</sup> cells	HEK293 Human Cell Line transfected with Cynomolgus Monkey TIGIT and eGFP	

# 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.

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12 months from date of receipt, 2 to 8 °C as supplied.

### BACKGROUND

TIGIT (T cell Immunoreceptor with Ig and ITIM domains), also called VSTM3 (V-set and transmembrane domain-containing 3), VSIG9 (V-set and Ig domain-containing 9) and WUCAM (Washington University cell adhesion molecule) is a 30-34 kDa type I transmembrane protein that is a member of the CD28 family within the Ig superfamily of proteins (1-4). Human TIGIT cDNA encodes 244 amino acids (aa) including a 21 aa signal sequence, a 120 aa extracellular region with a V-type Ig-like domain and two potential N-glycosylation site, a 21 aa transmembrane sequence, and an 82 aa cytoplasmic domain with an ITIM motif (5). A 170 aa variant diverges after aa 166 (5). Within the ECD, human TIGIT shares only 68-75% aa sequence identity with mouse, porcine, canine, equine and bovine TIGIT. Cyno TIGIT shares 88.4% homology with human TIGIT. TIGIT is expressed on NK cells and subsets of activated, memory and regulatory T cells, and particularly on follicular helper T cells within secondary lymphoid organs (1, 2, 6-8). It binds to CD155/PVR/Necl-5 and Nectin-2/CD112/PVRL2 that appear on dendritic cells (DC) and endothelium (1-3, 7). Binding of TIGIT by DC induces IL-10 release and inhibits IL-12 production (2). Ligation of TIGIT on T cells down-regulates TCR-mediated activation and subsequent proliferation, while NK cell TIGIT ligation blocks NK cell cytotoxicity (6-8). Through CD155 and Nectin-2, which also interact with DNAM-1/CD226 and CD96/Tactile, TIGIT is part of an interacting network of Ig superfamily members that may augment or oppose each other (3, 4, 6, 7). In particular, TIGIT binding to CD155 can antagonize the effects of DNAM-1 (6, 7). Soluble TIGIT is able to compete with DNAM-1 for CD155 binding and attenuates T cell responses, while mice lacking TIGIT show increased T cell responses and susceptibility to autoimmune challenges (2, 3, 8).

#### References:

- 1. Boles, K.S. et al. (2009) Eur. J. Immunol. 39:695.
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- 6. Seth, S. et al. (2009) Eur. J. Immunol. 39:3160.
- 7. Stanietsky, N. et al. (2009) Proc. Natl. Acad. Sci. USA 106:17858
- 8. Joller, N. et al. (2011) J. Immunol. 83:1338.

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