

APC anti-mouse TIGIT (Vstm3) Antibody

Catalog# / Size	156105 / 25 µg 156106 / 100 µg
Clone	4D4/mTIGIT
Regulatory Status	RUO
Other Names	TIGIT, Vstm3, WUCAM, VSIG9
Isotype	Armenian Hamster IgG
Description	T cell immunoreceptor with Ig and ITIM domains (TIGIT), also known as V-set and transmembrane domain-containing protein 3 (Vstm3), is a 26 kD, type I transmembrane protein and member of the CD28 family. TIGIT is expressed on activated T cells, follicular T helper, memory, and regulatory T cells as well as on NK cells. Its binding partners include CD155 (PVR) and CD112 (PVRL2). TIGIT is a negative regulator of NK and T cell activation. Engagement of TIGIT by dendritic cells results in their differentiation into a tolerogenic phenotype, with an increased secretion of IL-10 and a diminished production of IL-12. Mice deficient for TIGIT are more susceptible to autoimmune disease.

Product Details

Verified Reactivity	Mouse
Antibody Type	Monoclonal
Host Species	Armenian Hamster
Immunogen	Mouse TIGIT Tetramers
Formulation	Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide.
Preparation	The antibody was purified by affinity chromatography and conjugated with APC under optimal conditions.
Concentration	0.2 mg/mL
Storage & Handling	The antibody solution should be stored undiluted between 2°C and 8°C, and protected from prolonged exposure to light. Do not freeze.
Application	FC - Quality tested
Recommended Usage	Each lot of this antibody is quality control tested by immunofluorescent staining with flow cytometric analysis . For flow cytometric staining, the suggested use of this reagent is ≤ 0.5 µg per million cells in 100 µL volume. It is recommended that the reagent be titrated for optimal performance for each application.
Excitation Laser	Red Laser (633 nm)
Application Notes	It was reported that this clone can block the interaction between mouse TIGIT and CD155.
Application References	1. Joller N, <i>et al.</i> 2011. <i>J. Immunol.</i> 186:1338.
(PubMed link indicates BioLegend citation)	
RRID	AB_2750514 (BioLegend Cat. No. 156105) AB_2750515 (BioLegend Cat. No. 156106)

Antigen Details

Structure	Type I transmembrane protein, 26 kD, member of the CD28 family. Contains 1 Ig-like domain and 1 cytoplasmic ITIM motif.
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Distribution	Activated T cells, follicular T helper cells, NK, memory T cells, Tregs.
Function	Negative regulator of T cell activation and proliferation. Induction of tolerogenic dendritic cells.
Ligand/Receptor	CD155 (PVR) and CD112 (PVRL2).
Cell Type	Dendritic cells, NK cells, T cells, Tregs
Biology Area	Immunology, Inhibitory Molecules
Molecular Family	Adhesion Molecules, Immune Checkpoint Receptors
Antigen References	<ol style="list-style-type: none"> 1. Levin SD, <i>et al.</i> 2011. <i>Eur. J. Immunol.</i> 41:902. 2. Yu X, <i>et al.</i> 2009. <i>Nat. Immunol.</i> 10:48. 3. Stanietsky N, <i>et al.</i> 2009. <i>Proc. Natl. Acad. Sci. USA</i> 106:17858
Gene ID	100043314

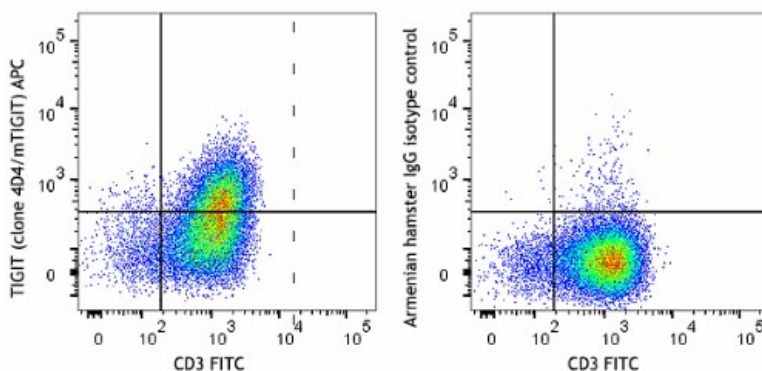
Related Protocols

[Cell Surface Flow Cytometry Staining Protocol](#)

Other Formats

Purified anti-mouse TIGIT (Vstm3), PE anti-mouse TIGIT (Vstm3), APC anti-mouse TIGIT (Vstm3), Ultra-LEAF™ Purified anti-mouse TIGIT (Vstm3)

Product Data



ConA-stimulated (3 days) C57BL/6 mouse splenocytes were stained with CD3 FITC and TIGIT APC (clone 4D4/mTIGIT, left) or armenian hamster IgG isotype control APC (right).

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