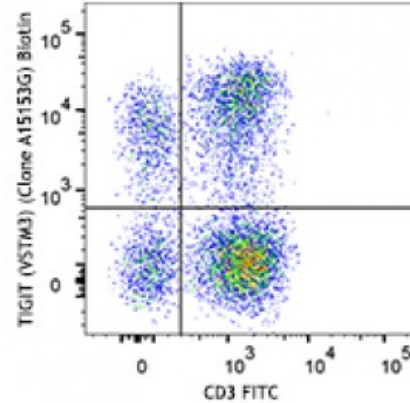


**Biotin anti-human TIGIT (VSTM3)**

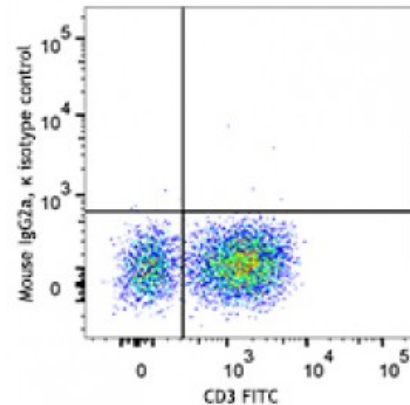
**Catalog # / Size:** 2463610 / 100 µg  
**Clone:** A15153G  
**Isotype:** Mouse IgG2a, κ  
**Immunogen:** Recombinant Human TIGIT.  
**Reactivity:** Human  
**Preparation:** The antibody was purified by affinity chromatography and conjugated with biotin under optimal conditions. The solution is free of unconjugated biotin.  
**Formulation:** Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide.  
**Concentration:** Lot-specific



Human peripheral blood leukocytes were stained with CD3 FITC and biotinylated TIGIT (top) or biotinylated mouse IgG2a, κ isotype control (bottom) followed by Streptavidin PE.

**Applications:**

**Applications:** Flow Cytometry  
**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 ≤0.25 microg per million cells in 100 microL volume. It is recommended that the reagent be titrated for optimal performance for each application.  
**Application Notes:** This clone can suppress anti-CD3 induced T cell proliferation *in vitro*.



**Description:** T cell immunoreceptor with Ig and ITIM domains (TIGIT), also known as VSTM3 or WUCAM, is a 26 kD, type I transmembrane protein and is a member of the PVR (poliovirus receptor) family of immunoglobulin-like domain containing proteins. TIGIT is expressed on activated T cells, follicular T helper, memory, and regulatory T cells as well as on NK cells. TIGIT is a negative regulator of NK and T cell activation. Expression of TIGIT is associated with decreased functionality of CD8 T cells in chronic viral infection and tumors. TIGIT also promotes the differentiation of tolerogenic phenotype in dendritic cells with an increased secretion of IL-10 and a diminished production of IL-12.

**Antigen References:**  
 1. Stanietsky N, *et al.* 2009. *Proc. Natl. Acad. Sci.* 106:17858.  
 2. Yu X, *et al.* 2009. *Nat. Immunol.* 10:48.  
 3. Johnston R, *et al.* 2014. *Cancer Cell.* 26:923.