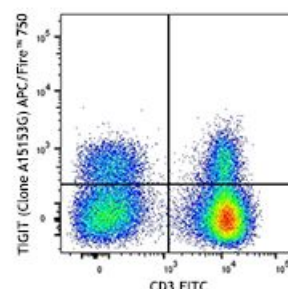


# APC/Fire™ 750 anti-human TIGIT (VSTM3)

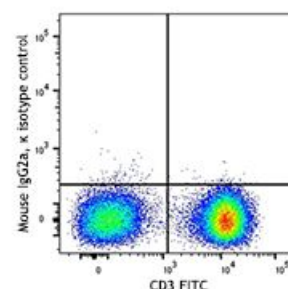
<b>Catalog # /</b>	2463535 / 25 tests
<b>Size:</b>	2463540 / 100 tests
<b>Clone:</b>	A15153G
<b>Isotype:</b>	Mouse IgG2a, κ
<b>Immunogen:</b>	Recombinant Human TIGIT.
<b>Reactivity:</b>	Human
<b>Preparation:</b>	The antibody was purified by affinity chromatography and conjugated with APC/Fire™
<b>Formulation:</b>	Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide and 0.2% (w/v) BSA (origin USA).
<b>Workshop Number:</b>	750 under optimal conditions.
<b>Concentration:</b>	Lot-specific



Human peripheral blood leukocytes were stained with CD3 FITC and TIGIT (clone A15153G) APC/Fire™ 750 (top) or mouse IgG2a, κ APC/Fire™ 750 isotype control (bottom). Data shown was gated on a lymphocyte population.

## Applications:

<b>Applications:</b>	Flow Cytometry
<b>Recommended Usage:</b>	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 5 µl per million cells in 100 µl staining volume or 5 µl per 100 µl of whole blood.



\* APC/Fire™ 750 has a maximum excitation of 650 nm and a maximum emission of 787 nm.

<b>Application Notes:</b>	This clone can suppress anti-CD3 induced T cell proliferation <i>in vitro</i> based on in-house testing.
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This clone has been tested in-house and determined to not be suitable for applications in immunohistochemistry of paraffin-embedded tissue sections (IHC-P).

Additional reported applications (for the relevant formats) include:  
Blocking<sup>1</sup>.

<b>Application References:</b>	1. Stamm H, et al. 2018. <i>Oncogene</i> . <a href="#">Pubmed</a>
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**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. Stanitsky 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.