

Brilliant Violet 510™ anti-human TIGIT (VSTM3)

Catalog # / Size: 2463690 / 100 tests
2463685 / 25 tests

Clone: A15153G

Isotype: Mouse IgG2a, κ

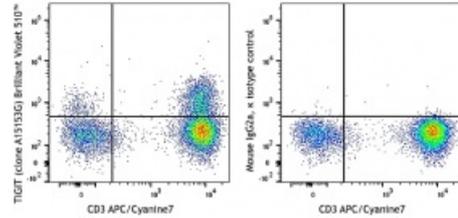
Immunogen: Recombinant Human TIGIT.

Reactivity: Human

Preparation: The antibody was purified by affinity chromatography and conjugated with Brilliant Violet 510™ under optimal conditions.

Formulation: Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide and BSA (origin USA)

Concentration: Lot-specific



Human peripheral blood lymphocytes were stained with CD3 APC/Cyanine7 and TIGIT (VSTM3) (clone A15153G) Brilliant Violet 510™ (left) or mouse IgG2a, κ Brilliant Violet 510™ isotype control (right).

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 5 μL per million cells in 100 μL staining volume or 5 μL per 100 μL of whole blood. It is recommended that the reagent be titrated for optimal performance for each application.

Brilliant Violet 510™ excites at 405 nm and emits at 510 nm. The bandpass filter 510/50 nm is recommended for detection, although filter optimization may be required depending on other fluorophores used. Be sure to verify that your cytometer configuration and software setup are appropriate for detecting this channel. Refer to your instrument manual or manufacturer for support. Brilliant Violet 510™ is a trademark of Sirigen Group Ltd.

Application Notes: This clone can suppress anti-CD3 induced T cell proliferation *in vitro* based on in-house testing.

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: Blocking¹.

Application References: 1. Stamm H, et al. 2018. *Oncogene*. [Pubmed](#)

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.