SONY

Product Data Sheet

Brilliant Violet 605™ anti-human TIGIT (VSTM3)

Catalog # / Size: 2463555 / 25 tests
2463560 / 100 tests

Clone: A15153G

Isotype: Mouse IgG2a, κ

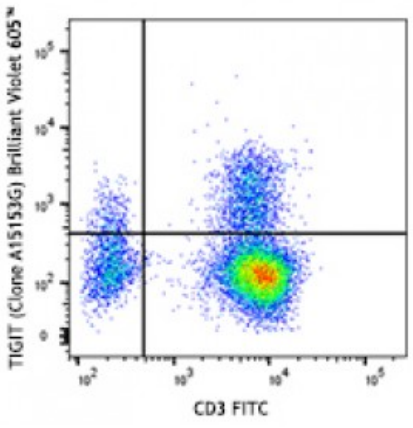
Immunogen: Recombinant Human TIGIT.

Reactivity: Human

Preparation: The antibody was purified by affinity chromatography and conjugated with Brilliant Violet 605™ under optimal conditions. The solution is free of unconjugated Brilliant Violet 605™ and unconjugated antibody.

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

Concentration: Lot-specific



Human peripheral blood leukocytes were stained with CD3 FITC and TIGIT (clone A15153G) Brilliant Violet 605™ (top) or mouse IgG2a, κ Brilliant Violet 605™ isotype control (bottom). Data shown was gated on the lymphocyte population.

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

Brilliant Violet 605™ excites at 405 nm and emits at 603 nm. The bandpass filter 610/20 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 605™ is a trademark of Sirigen Group Ltd.

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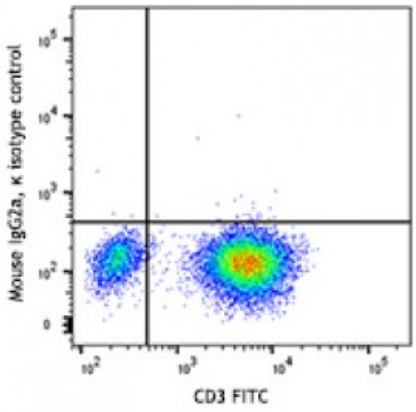

the purchased product for research purposes only. This product may not be resold or incorporated in any manner into another product for resale. Any use for therapeutics or diagnostics is strictly prohibited. This product is covered by U.S. Patent(s), pending patent applications and foreign equivalents.

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.