SONY

Product Data Sheet

Brilliant Violet 510™ anti-mouse CD226 (DNAM-1)

Catalog # / Size: 1268035 / 50 µg

Clone: TX42.1

Isotype: Rat IgG2a, κ

Immunogen: Mouse DNAM-1 transfected cells

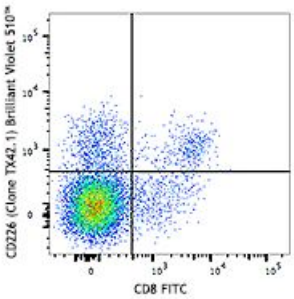
Reactivity: Mouse

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).

Workshop Number: 750 under optimal conditions.

Concentration: 0.2



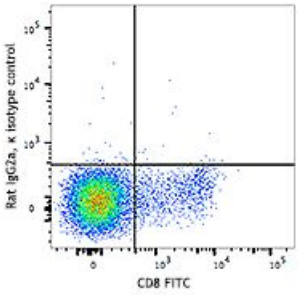
C57BL/6 splenocytes were stained with CD8 FITC and with TX42.1 Brilliant Violet 510™ (top) or rat IgG2a, κ isotype control Brilliant Violet 510™ (bottom).

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 ≤0.5 µg per million cells in 100 µl volume. 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 References:

1. Dardalhon V, *et al.* 2005. *J. Immunol.* 175:1558
2. Shirakawa J, *et al.* 2006. *International Immunology* 18(6):951-957

For research use only. Not for diagnostic use. Not for resale. Sony Biotechnology Inc. will not be held responsible for patent infringement or other violations that may occur with the use of our products.

Sony Biotechnology Inc. 1730 North First Street, San Jose, CA 95112 www.sonybiotechnology.com

Description: Mouse CD226 (DNAM-1) is a 65 kd glycoprotein of a member of Ig super-family adhesion molecule containing 2 immunoglobulin-like domains. It is associated with leukocyte function associated antigen-1 (LFA-1) involving in TCR-mediated signal transduction for T cell proliferation and differentiation. CD226 is also involved in NK cell and T cell mediated cytotoxicity against certain tumors. CD226 (DNAM-1) is constitutively expressed on naï ve $CD8^+$ and $CD4^+$ T cells, macrophages, and NK cells. It was reported that CD226 expression is up-regulated on Th1 cells, but down-regulated on Th2 and Th0 cells. CD155 and CD112 are the ligands for CD226.

Antigen References:

1 Tahara Hanaoka S, *et al.* 2006. *Blood*. 107:1491
2 Shibuya K *et al.* 2003. *J. Exp. Med.* 198:1829.

For research use only. Not for diagnostic use. Not for resale. Sony Biotechnology Inc. will not be held responsible for patent infringement or other violations that may occur with the use of our products.
Sony Biotechnology Inc. 1730 North First Street, San Jose, CA 95112 www.sonybiotechnology.com