

Alexa Fluor® 647 anti-mouse CD226 (DNAM-1) Antibody

Catalog# / Size	128808 / 100 µg
Clone	10E5
Regulatory Status	RUO
Other Names	DNAM-1, PTA1 (platelet and T cell activation antigen 1), TLISA1, LFA-1 associated Molecule PTA-1
Isotype	Rat IgG2b, κ
Description	CD226 (DNAM-1) is constitutively expressed on native CD8 ⁺ cells and on CD4 ⁺ T cells, macrophages and NK cells. This antibody (10E5) was reported to bind about 40% of inactivated CD4 ⁺ cells and binds only to differentiated Th1 cells, but not to Th2 or Th0 cells. It is also reported to suppress antigen-specific T cell expansion and EAE (experimental allergic encephalitis) mediated by Th1 cells.

Product Details

Verified Reactivity	Mouse
Antibody Type	Monoclonal
Host Species	Rat
Immunogen	Th1 polarized T cell clones
Formulation	Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide.
Preparation	The antibody was purified by affinity chromatography and conjugated with Alexa Fluor® 647 under optimal conditions.
Concentration	0.5 mg/ml
Storage & Handling	The antibody solution should be stored undiluted between 2°C and 8°C, and protected from prolonged exposure to light. Do not freeze.
Application	FC - Quality tested
Recommended Usage	<p>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 µg per million cells in 100 µl volume. It is recommended that the reagent be titrated for optimal performance for each application.</p> <p>* Alexa Fluor® 647 has a maximum emission of 668 nm when it is excited at 633 nm / 635 nm.</p> <p>Alexa Fluor® and Pacific Blue™ are trademarks of Life Technologies Corporation.</p> <p>View full statement regarding label licenses</p>
Excitation Laser	Red Laser (633 nm)
Application References	<ol style="list-style-type: none">1. Dardalhon V, <i>et al.</i> 2005. <i>J. Immunol.</i> 175:15582. Huang Z, <i>et al.</i> 2011. <i>J Immunol.</i> 186:3421. PubMed
Product Citations	<ol style="list-style-type: none">1. Shapiro MR, <i>et al.</i> 2020. <i>Front Immunol.</i> 1.972222222. PubMed2. Berglund L, <i>et al.</i> 2013. <i>Blood.</i> 122:3940. PubMed3. Wagner AK, <i>et al.</i> 2022. <i>iScience.</i> 25:105137. PubMed
RRID	AB_1227541 (BioLegend Cat. No. 128808)

Antigen Details

Structure	65 kd glycoprotein of a member of Ig-superfamily containing 2 immunoglobulin-like domains.
Distribution	Expressed on majority of CD4 ⁺ and CD8 ⁺ T cells, NK cells, monocytes/macrophages and a subset of B cells and thymocytes. Reported to be specifically expressed on the surface of Th1 cells, but downregulated in Th2 cells.
Function	Mediates cellular adhesion, involved in LFA-1 costimulatory signal for T cell differentiation and proliferation
Ligand/Receptor	CD112 and CD155
Cell Type	B cells, Macrophages, Monocytes, NK cells, T cells, Th1
Biology Area	Immunology
Molecular Family	Adhesion Molecules, CD Molecules
Antigen References	1. Tahara Hanaoka S, <i>et al.</i> 2006. <i>Blood</i> 107:1491 2. Shibuya K, <i>et al.</i> 2003. <i>J. Exp. Med.</i> 198:1829
Gene ID	225825

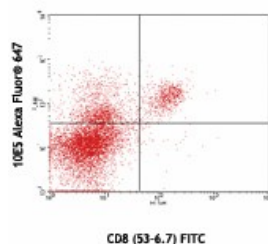
Related Protocols

[Cell Surface Flow Cytometry Staining Protocol](#)

Other Formats

FITC anti-mouse CD226 (DNAM-1), PE anti-mouse CD226 (DNAM-1), Alexa Fluor® 647 anti-mouse CD226 (DNAM-1), APC anti-mouse CD226 (DNAM-1), PE/Cyanine7 anti-mouse CD226 (DNAM-1), PerCP/Cyanine5.5 anti-mouse CD226 (DNAM-1), APC/Fire™ 750 anti-mouse CD226 (DNAM-1), PE/Dazzle™ 594 anti-mouse CD226 (DNAM-1), Biotin anti-mouse CD226 (DNAM-1), Purified anti-mouse CD226 (DNAM-1), TotalSeq™-A0852 anti-mouse CD226 (DNAM-1), TotalSeq™-C0852 anti-mouse CD226 (DNAM-1) Antibody

Product Data



C57BL/6 splenocytes stained with CD8 (53-6.7) FITC and 10E5 Alexa Fluor® 647

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BioLegend Inc., 8999 BioLegend Way, San Diego, CA 92121 www.biolegend.com
Toll-Free Phone: 1-877-Bio-Legend (246-5343) Phone: (858) 768-5800 Fax: (877) 455-9587