

CD226 (DNAM-1) Monoclonal Antibody (10E5), APC, eBioscience™

Product Details	
Size	100 µg
Species Reactivity	Mouse
Published Species	Mouse
Host/Isotype	Rat / IgG2b, kappa
Recommended Isotype Control	Rat IgG2b kappa Isotype Control (eB149/10H5), APC, eBioscience™
Class	Monoclonal
Type	Antibody
Clone	10E5
Conjugate	APC
Excitation/Emission Max	651/660 nm
Form	Liquid
Concentration	0.2 mg/mL
Purification	Affinity chromatography
Storage buffer	PBS, pH 7.2
Contains	0.09% sodium azide
Storage conditions	4° C, store in dark, DO NOT FREEZE!
RRID	AB_11149875

Applications	Tested Dilution	Publications
Flow Cytometry (Flow)	0.25 µg/test	4 Publications

Product Specific Information

Description: This 10E5 monoclonal antibody reacts with mouse CD226, which is also known as DNAX accessory molecule-1 (DNAM-1). CD226 is an adhesion molecule expressed primarily on T cells, including thymocytes. The highest levels of CD226 are found on naive CD8 T cells. Moreover, expression of CD226 is regulated differentially in CD4 T cells. Under certain culture conditions, CD226 can be upregulated in Th1 and downregulated in Th2 and Th0 cells. This cell surface receptor can also be detected on natural killer cells, some B cell subsets, monocytes, and platelets. Interaction with its ligands, the poliovirus receptor (CD155) and CD112, results in adhesion and cell signaling events that promote innate and adaptive immunity, including differentiation, survival, and cytotoxicity.

The 10E5 monoclonal antibody has been reported to inhibit antigen-specific T cell proliferation and IFN-gamma production in vivo.

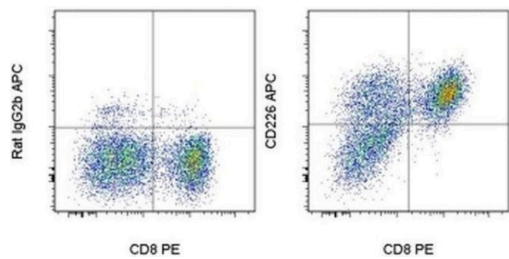
Applications Reported: This 10E5 antibody has been reported for use in flow cytometric analysis.

Applications Tested: This 10E5 antibody has been tested by flow cytometric analysis of stimulated mouse splenocytes. This can be used at less than or equal to 0.25 µg per test. A test is defined as the amount (µg) of antibody that will stain a cell sample in a final volume of 100 µL. Cell number should be determined empirically but can range from 10⁵ to 10⁸ cells/test. It is recommended that the antibody be carefully titrated for optimal performance in the assay of interest.

Excitation: 633-647 nm; Emission: 660 nm; Laser: Red Laser.

Filtration: 0.2 µm post-manufacturing filtered.

Product Images For CD226 (DNAM-1) Monoclonal Antibody (10E5), APC, eBioscience™



CD226 (DNAM-1) Antibody (17-2261-82) in Flow
C57Bl/6 splenocytes were stimulated with Anti-Mouse CD3e Functional Grade Purified (Product # 16-0031-82) and Anti-Mouse CD28 Functional Grade Purified (Product # 16-0281-82) for 3 days and then stained with Anti-Mouse CD8a PE (Product # 12-0081-82) and 0.125 µg of Rat IgG2b K Isotype Control APC (Product # 17-4031-82) (left) or 0.125 µg of Anti-Mouse CD226 (DNAM-1) APC (right). Total viable cells were used for analysis.

4 References

Flow Cytometry (4)

<p>Journal of translational medicine</p> <p>CD226 knockout alleviates high-fat diet induced obesity by suppressing proinflammatory macrophage phenotype.</p> <p>"Published figure using CD226 (DNAM-1) monoclonal antibody (Product # 17-2261-82) in Flow Cytometry"</p> <p>Authors: Ma J,Hu W,Zhang D,Xie J,Duan C,Liu Y,Wang Y,Xu X,Cheng K,Jin B,Zhang Y,Zhuang R</p>	<p>Year 2021</p> <p>Species Mouse</p>
<p>The Journal of experimental medicine</p> <p>The transcriptional repressor ID2 supports natural killer cell maturation by controlling TCF1 amplitude.</p> <p>"17-2261-82 was used in Flow Cytometry to demonstrate that ID2 sets a threshold for TCF1 during NK cell development, thus controlling the balance of immature and terminally differentiated cells that support future NK cell responses."</p> <p>Authors: Li ZY,Morman RE,Hegermiller E,Sun M,Bartom ET,Maienschein-Cline M,Sigvardsson M,Kee BL</p>	<p>Year 2021</p> <p>Species Mouse</p>

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