

Technical Data Sheet

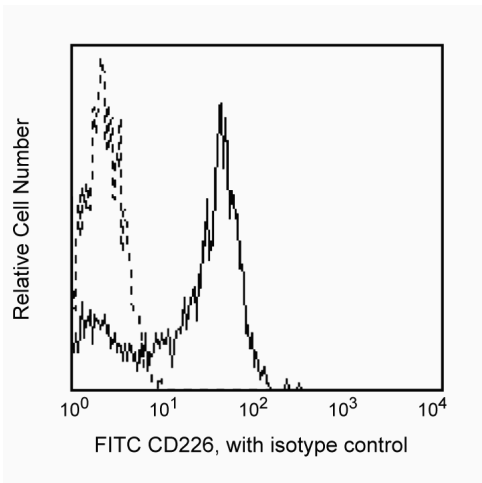
FITC Mouse Anti-Human CD226

Product Information

Material Number:	559788
Alternate Name:	DNAM-1; DNAM1; PTA1; PTA-1; TLIa1
Size:	100 Tests
Vol. per Test:	20 µl
Clone:	DX11
Isotype:	Mouse (BALB/c) IgG1, κ
Reactivity:	QC Testing: Human
Workshop:	VII 70648
Storage Buffer:	Aqueous buffered solution containing BSA and ≤0.09% sodium azide.

Description

The DX11 monoclonal antibody specifically binds to CD226 which is also known as DNAX accessory molecule-1 (DNAM-1), Platelet and T cell activation antigen 1 (PTA1), or T lineage-specific activation antigen 1 antigen (TLiSA1). CD226 is a 65 kDa type 1 transmembrane glycoprotein consisting of 318 amino acid residues including two Ig-like domains. CD226 is expressed on the majority of T cells, NK cells, monocytes, platelets, and a subset of B cells, but not on granulocytes or erythrocytes. It is also present on a subset of thymocytes coexpressing high density surface CD3. CD226 is not present on normal fibroblast cell lines or tumor cell lines of epithelial or neuronal origins. CD226 is a tyrosine phosphorylated, signal-transducing molecule which participates in primary adhesion during cytotoxic T lymphocyte (CTL)- or NK cell-mediated cytotoxicity. The DX11 antibody inhibits T- and NK cell-mediated cytotoxicity against a variety of tumor cell targets, and blocks cytokine production by alloantigen-specific T cells.



Profile of peripheral blood lymphocytes analyzed by flow cytometry.

Preparation and Storage

Store undiluted at 4°C and protected from prolonged exposure to light. Do not freeze.
The monoclonal antibody was purified from tissue culture supernatant or ascites by affinity chromatography.
The antibody was conjugated with FITC under optimum conditions, and unreacted FITC was removed.

Application Notes

Application

Flow cytometry	Routinely Tested
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Suggested Companion Products

Catalog Number	Name	Size	Clone
555748	FITC Mouse IgG1, κ Isotype Control	100 Tests	MOPC-21

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Product Notices

1. This reagent has been pre-diluted for use at the recommended Volume per Test. We typically use 1×10^6 cells in a 100- μ l experimental sample (a test).
2. An isotype control should be used at the same concentration as the antibody of interest.
3. Caution: Sodium azide yields highly toxic hydrazoic acid under acidic conditions. Dilute azide compounds in running water before discarding to avoid accumulation of potentially explosive deposits in plumbing.
4. Source of all serum proteins is from USDA inspected abattoirs located in the United States.
5. For fluorochrome spectra and suitable instrument settings, please refer to our Multicolor Flow Cytometry web page at www.bdbiosciences.com/colors.
6. Please refer to www.bdbiosciences.com/pharming/protocols for technical protocols.

References

Shibuya A, Campbell D, Hannum C, et al. DNAM-1, a novel adhesion molecule involved in the cytolytic function of T lymphocytes. *Immunity*. 1996; 4(6):573-581. (Clone-specific)

Shibuya A, Lanier LL, Phillips JH. Protein kinase C is involved in the regulation of both signaling and adhesion mediated by DNAX accessory molecule-1 receptor. *J Immunol*. 1998; 161(4):1671-1676. (Clone-specific)

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