

Technical Data Sheet

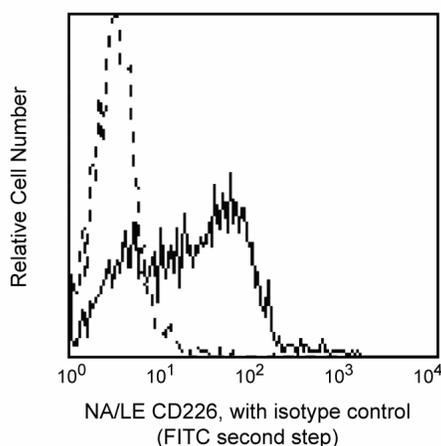
Purified NA/LE Mouse Anti-Human CD226

Product Information

Material Number:	559786
Alternate Name:	DNAM-1; DNAM1; PTA1; PTA-1; TLI5A1
Size:	0.5 mg
Concentration:	1.0 mg/ml
Clone:	DX11
Isotype:	Mouse (BALB/c) IgG1, κ
Reactivity:	QC Testing: Human
Workshop:	VII 70648
Storage Buffer:	No azide/low endotoxin: Aqueous buffered solution containing no preservative, 0.2 μ m sterile filtered. Endotoxin level is \leq 0.01 EU/ μ g (\leq 0.001 ng/ μ g) of protein as determined by the LAL assay.

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. Second step staining with Cat. No. 555988.

Preparation and Storage

Store undiluted at 4°C.

The monoclonal antibody was purified from tissue culture supernatant or ascites by affinity chromatography.

This preparation contains no preservatives, thus it should be handled under aseptic conditions.

Application Notes

Application

Flow cytometry	Routinely Tested
Functional assay	Tested During Development

Suggested Companion Products

Catalog Number	Name	Size	Clone
555746	Purified Mouse IgG1, κ Isotype Control	0.1 mg	MOPC-21
555988	FITC Goat Anti-Mouse IgG/IgM	0.5 mg	Polyclonal

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554721	Purified NA/LE Mouse IgG1 κ Isotype Control	0.5 mg	107.3
559787	Purified Mouse Anti-Human CD226	0.1 mg	DX11

Product Notices

1. Since applications vary, each investigator should titrate the reagent to obtain optimal results.
2. An isotype control should be used at the same concentration as the antibody of interest.
3. Please refer to www.bdbiosciences.com/pharming/en/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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