

Technical Data Sheet

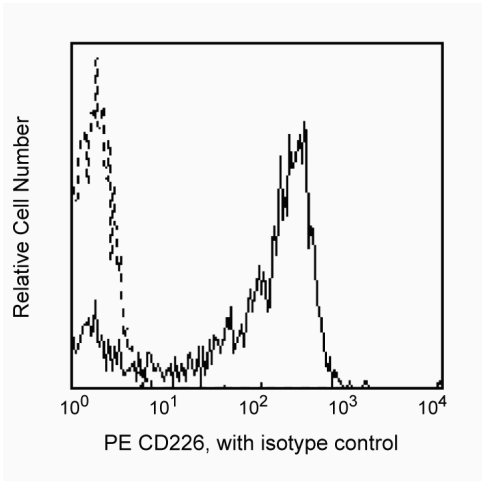
PE Mouse Anti-Human CD226

Product Information

|                  |                                                                   |
|------------------|-------------------------------------------------------------------|
| Material Number: | 559789                                                            |
| 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 R-PE under optimum conditions, and unconjugated antibody and free PE were removed.

Application Notes

Application

|                |                  |
|----------------|------------------|
| Flow cytometry | Routinely Tested |
|----------------|------------------|

Suggested Companion Products

| Catalog Number | Name                             | Size      | Clone   |
|----------------|----------------------------------|-----------|---------|
| 555749         | PE Mouse IgG1, κ Isotype Control | 100 Tests | MOPC-21 |

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| 877.232.8995         | 800.268.5430  | 32.2.400.98.95 | 0120.8555.90 | 65.6861.0633        | 55.11.5185.9995                |

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## Product Notices

1. This reagent has been pre-diluted for use at the recommended Volume per Test. We typically use  $1 \times 10^6$  cells in a 100- $\mu$ 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](http://www.bdbiosciences.com/colors).
6. Please refer to [www.bdbiosciences.com/pharming/protocols](http://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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