

## InVivoMAb anti-mouse CD226 (DNAM-1)

**Attention:** Use of this product constitutes an agreement to Bio X Cell's Terms and Conditions which are included with this product in print and can also be found at <https://bioxcell.com/terms-and-conditions>.

### Lot Specific Information

Lot Number: Lot Specific\*  
Volume: Lot Specific\*  
Concentration: Lot Specific\* (generally 4 to 11 mg/ml) \*  
Total Protein: Lot Specific\*

\*This information will be noted on the certificate of analysis that ships with this product.

### Product Information

Catalog Number: BE0493  
Clone: clone 480.1  
Isotype: Rat IgG2a,  $\kappa$   
Recommended Isotype Control(s): InVivoMAb rat IgG2a isotype control, anti-trinitrophenol  
Recommended Dilution Buffer: InVivoPure pH 7.0 Dilution Buffer  
Immunogen: RBL cells transfected with mDNAM-1 cDNA (RBL-mDNAM-1)  
Reported Applications: *in vivo* blockade of CD226  
*in vitro* blockade of CD226  
Flow cytometry  
Formulation: PBS, pH 7.0  
Contains no stabilizers or preservatives  
Endotoxin:  $\leq 1$  EU/mg ( $\leq 0.001$  EU/ $\mu$ g)  
Determined by LAL assay  
Purity:  $\geq 95\%$   
Determined by SDS-PAGE  
Sterility: 0.2  $\mu$ m filtered  
Production: Purified from cell culture supernatant in an animal-free facility  
Purification: Protein G  
RRID:  
Molecular Weight: 150 kDa

### Description

The 480.1 monoclonal antibody reacts with mouse CD226 antigen, also known as platelet and T-cell activation antigen 1 (Pta1), DNAX Accessory Molecule-1 (DNAM-1), and TLISA1. Upon recognition of tumor cells or virus-infected cells, the CD226 antigen functions as a costimulatory receptor. The main ligand of CD226 is CD155 (also called PVR or Necl 5) on cancer cells and antigen-presenting cells (APCs). CD112 (nectin 2, PRR 2) is another ligand for CD226, and it is generally co-expressed with CD155 on myeloid cells, endothelial cells, and various tumors. CD226 competes with TIGIT and CD96 for the same ligands, and the CD226-CD155/-CD112 interactions are essential to cell-cell adhesion, lymphocyte signaling, cytotoxicity, and lymphokine secretion mediated by cytotoxic T-cells and NK cells. In T cell biology, CD226 is also suggested to regulate the terminal maturation of CD8<sup>+</sup> thymocytes, Th cell differentiation, and Treg cell suppressive functions. PD-1/PD-L1 negatively regulates CD226 signaling, and the deficiency of CD226 is reported to reduce tumor immunosurveillance in a range of *in vivo* mouse tumor models.

### Storage

Store at the stock concentration at 4°C . **Do not freeze.**

It is not uncommon for a floccule or precipitate to appear during storage. The floccule is typically buffer salts precipitating out of solution or a small bit of protein aggregation. For information on how to remove floccules or precipitates see our FAQ's at <https://bioxcell.com/faqs>.

## Protocol Information

Since applications vary, each investigator should use the application references as a guide to help estimate the appropriate dose or concentration. The dose or concentration can be further optimized experimentally in a dose response or titration experiment.

## Application References

For a complete list of references, visit [https://bioxcell.com/be0493?bxcs=9k1b3a#tab\\_references](https://bioxcell.com/be0493?bxcs=9k1b3a#tab_references) or scan the QR code below.



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*Not for resale.*

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