

## Anti-CD226 [10E5] VivopureX 1 mg Ab01366-2.3-VXS

This antibody was created using our proprietary Fc Silent™ engineered Fc domain containing key point mutations that abrogate binding to Fc gamma receptors.

This chimeric mouse antibody was made using the variable domain sequences of the original Rat IgG2b format, for improved compatibility with existing reagents, assays and techniques.

**Isotype and Format:** Mouse IgG2a, [Fc Silent™](#), Kappa

**Clone Number:** 10E5

**Alternative Name(s) of Target:** DNAM-1; PTA1; PTA-1; platelet and T cell activation antigen 1; TLISA1

**UniProt Accession Number of Target Protein:** Q8K4F0

**Published Application(s):** FC

**Published Species Reactivity:** Mouse

**Immunogen:** This antibody was raised by immunising Lewis and Lou/M rats with the murine Th1 cell clone AE7 and Th1 cell lines derived from 5B6 and DO11.10 TCR transgenic mice, before screening for reactivity with Th1 clones and a lack of reactivity to Th2/Th0 cell lines.

**Specificity:** This antibody is specific for murine CD226.

**Application Notes:** The specificity of this antibody for murine CD226 has been confirmed in flow cytometric analysis using 293 cells transfected with CD226 cDNA and untransfected 293 cells (Dardalhon et al, 2005). This antibody has been used in flow cytometry to identify the surface expression pattern of CD226, which is predominantly confined to T cells (Dardalhon et al, 2005; Yasuma et al, 2016), and to detect NK cell CD226 expression and apoptosis (Huang et al, 2011). Immunisation of mice with this antibody inhibits antigen-specific T cell expansion (Dardalhon et al, 2005). Additionally, treatment of experimental autoimmune encephalomyelitis (EAE) mice with this antibody delays the onset and reduces the severity of Th1 cell-mediated autoimmune disease (Dardalhon et al, 2005).

**Antibody First Published in:** Dardalhon et al. CD226 is specifically expressed on the surface of Th1 cells and regulates their expansion and effector functions. J Immunol. 2005 Aug 1;175(3):1558-65.

[PMID:16034094](#)

**Note on publication:** Describes the original generation of this antibody, and its characterisation.

## Product Form

**Size:** 1 mg VivopureX products are produced at high purity (>98%), low endotoxin (<0.5 EU/mg) and are

formulated without preservatives. These antibodies are chimerized to have an Fc domain matching their target species to reduce immunogenicity and give you the optimal effector function for your experiment. As a result VivopureX products are the ideal choice for in vivo research applications.

**Purification:** Protein A affinity purified

**Supplied In:** PBS only.

**Storage Recommendation:** All VivopureX products are formulated in PBS only without addition of preservatives. To ensure optimal storage and prevent microbial contamination, only open and dispense under sterile conditions. Store at 4°C for up to 3 months. For longer storage, aliquot and store at -20°C.

**Concentration:**  $\geq 1$ mg (see vial label for exact conc)

Important note – This product is for research use only. It is not intended for use in therapeutic or diagnostic procedures for humans or animals.