

## Anti-TIGIT [4D4] VivopureX 10 mg Ab00973-2.3-VXL

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 Hamster format, for improved compatibility with existing reagents, assays and techniques.

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

**Clone Number:** 4D4

**Alternative Name(s) of Target:** VSIG9; T Cell Immunoreceptor With Ig And ITIM Domains; V-Set And Immunoglobulin Domain Containing Protein 9; V-Set And Transmembrane Domain Containing Protein 3; VSTM3; T Cell Immunoreceptor With Ig And ITIM Domains; Washington University Cell Adhesion Molecule; WUCAM

**UniProt Accession Number of Target Protein:** P86176

**Published Application(s):** agonist, FC

**Published Species Reactivity:** Mouse

**Immunogen:** Armenian hamsters were immunized with recombinant mouse TIGIT tetramers by a combination of s.c. and food pad immunization and booster injections. Draining lymph nodes were fused with Sp2/0-Ag14 cells, selected in HAT (hypoxanthine/aminopterin/thymidine) medium and supernatants were screened for specificity by ELISA and flow cytometry using TIGIT-transfectants.

**Specificity:** 4D4 specifically recognises TIGIT.

**Application Notes:** 4D4 is an agonistic anti-TIGIT antibody, and addition of plate bound 4D4 to anti-CD3/anti-CD28 stimulated T cells was shown to inhibit their proliferation (Joller 2011). Further, 4D4 has been used in order to identify genes that are downstream of TIGIT signaling in Tregs, as TIGIT engagement might modulate the Treg phenotype in tumor tissue (Liu 2016).

**Antibody First Published in:** Joller et al. Cutting edge: TIGIT has T cell-intrinsic inhibitory functions. J Immunol. 2011 Feb 1;186(3):1338-42 [PMID:21199897](#)

**Note on publication:** Describes the generation of anti-TIGIT monoclonal antibodies and their use to analyse the function of TIGIT in cells.

## Product Form

**Size:** 10 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.

**Concentration:**  $\geq 1\text{mg}$  (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.