

## Product datasheet for TA399799

### TIGIT Mouse Monoclonal Antibody [Clone ID: 4A5]

#### Product data:

**Product Type:** Primary Antibodies

**Clone Name:** 4A5

**Applications:** ELISA, FC

**Reactivity:** Human

**Host:** Mouse

**Isotype:** IgG1, kappa

**Clonality:** Monoclonal

**Immunogen:** The original antibody was generated by immunizing 9 week old BALB/c mice with recombinant human TIGIT extracellular region Fc fusion protein in complete Freund's adjuvant.

**Specificity:** This antibody binds the extracellular domain of the human TIGIT (T cell immunoreceptor with Ig and ITIM domains). TIGIT is a type I transmembrane protein that is a member of the CD28 family within the Ig superfamily of proteins. It is an immune receptor present on some T cells and natural killer cells (NK). It binds the poliovirus receptor (PVR) with high affinity which causes increased secretion of IL10 and decreased secretion of IL12B and suppresses T-cell activation by promoting the generation of mature immunoregulatory dendritic cells.

The binding characterization of this antibody towards human TIGIT was done using ELISA and flow cytometry. This antibody can bind human TIGIT extracellular domain Fc fusion protein in an ELISA and is also capable of recognizing TIGIT expressed on HEK293 cells by flow cytometry. The original IgG1 version of this antibody binds human TIGIT with a binding affinity of  $K_d=3.732 \times 10^{-10}$  M. This antibody was also reported to successfully block the binding of TIGIT to its ligand CD155. This antibody is capable of binding NK cells in vitro. The anti-cancer activity of this antibody was tested on ovarian cancer cell HO8910, human non-small cell lung cancer cell NCI-H358 and human non-small cell lung cancer cell NCI-H1650 (CN109384846).

**Formulation:** PBS with 0.02% Proclin 300.

**Concentration:** lot specific

**Conjugation:** Unconjugated

**Storage:** Store at 4°C for up to 3 months. For longer storage, aliquot and store at -20°C.



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Database Link: [Q495A1](#)

Synonyms: T-cell immunoreceptor with Ig and ITIM domains; V-set and immunoglobulin domain-containing protein 9; V-set and transmembrane domain-containing protein 3; VSIG9; VSTM3; WUCAM