

Anti-TIGIT [AET2010] Standard Size Ab03140-3.0

This chimeric mouse antibody was made using the variable domain sequences of the original Human IgG1 format for improved compatibility with existing reagents assays and techniques.

Isotype and Format: Mouse IgG2b, Lambda

Clone Number: AET2010

Alternative Name(s) of Target: VSTM3; VSIG9; WUCAM; T-cell immunoreceptor with Ig and ITIM domains; V-set and immunoglobulin domain-containing protein 9; V-set and transmembrane domain-containing protein 3

UniProt Accession Number of Target Protein: Q495A1

Published Application(s): Block, ELISA, FC

Published Species Reactivity: Human

Immunogen: The original antibody was isolated from a fully synthetic human single chain antibody phage display library by multiple rounds of bio panning against human TIGIT.

Specificity: This antibody binds 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.

Application Notes: The binding characterization of this antibody for TIGIT was done using ELISA. The IgG1 version of this antibody binds human TIGIT with a binding affinity of $K_d = 3.74$ nM. This antibody is also capable of blocking the binding of TIGIT to its ligand CD155. The binding of this antibody to membrane bound TIGIT was determined using flow cytometry. The anti-tumor activity of this antibody was tested against NK-92MI cells in vitro. It was also reported that AET 2010 exhibits enhanced anti-tumor activity in the CDX mouse model of NK-92MI cells (CN112679610).

Antibody First Published in: [PMID:](#)

Note on publication:

Product Form

Size: 200 µg Purified antibody.

Purification:

Protein A affinity purified

Supplied In: PBS with 0.02% Proclin 300.

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

Concentration: 1 mg/ml.

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