

Anti-TIGIT [1B4] Standard Size Ab01258-23.0

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

Isotype and Format: Rabbit IgG, Lambda

Clone Number: 1B4

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

UniProt Accession Number of Target Protein: P86176

Published Application(s): Blocking, ELISA, FC

Published Species Reactivity: Mouse

Immunogen: This antibody was raised by immunising TIGIT^{-/-} mice with recombinant murine TIGIT tetramers.

Specificity: This antibody is specific for murine TIGIT.

Application Notes: The binding specificity of this antibody for TIGIT has been confirmed in ELISA analysis and by flow cytometry using P815 cells transfected with mouse TIGIT and activated mouse splenocytes (Dixon et al, 2018). This antibody also specifically stains activated primary wild-type T cells (Dixon et al, 2018). This antibody fully blocks CD155 binding to TIGIT, and acts as a TIGIT blocking antibody in vivo. Administration of this antibody increases experimental autoimmune encephalomyelitis (EAE) severity, and retards the growth of established MC38 colon carcinoma and GL261 glioblastoma (Dixon et al, 2018). This antibody synergises with anti-PD-1 blocking antibodies to achieve complete tumour regression in colon carcinoma models (Dixon et al, 2018). The original mouse IgG1 antibody does not deplete TIGIT-expressing CD4⁺ or CD8⁺ T cells in vivo, nor affect T cell proliferation in vitro (Dixon et al, 2018).

Antibody First Published in: Dixon et al. Functional Anti-TIGIT Antibodies Regulate Development of Autoimmunity and Antitumor Immunity J Immunol. 2018 Apr 15;200(8):3000-3007 [PMID:29500245](#)

Note on publication: Describes the original generation of this antibody, and the establishment of its TIGIT-blocking function.

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.