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12-8506: Anti-Mouse TIGIT — Purified in vivo GOLD™ Functional Grade Antibody (Clone 1B4)

Clonality :	Monoclonal
Clone Name :	1B4
Application :	Functional Assay,ELISA,FACS
Reactivity :	Mouse
Gene :	TIGIT
Gene ID :	100043314
Uniprot ID :	Q495A1
Format :	Purified
Alternative Name :	Vstm3, VSIG9
Isotype :	Mouse IgG1 κ
Immunogen Information :	Recombinant murine TIGIT tetramers.

Description

Specificity: 1B4 activity is directed against mouse TIGIT.

Background: TIGIT is an immunoreceptor that inhibits multiple immune cell responses, including T cell priming by dendritic cells, tumor cell killing by NK cells and cytotoxic T cells, and also enhances the immune suppressive activity of regulatory T cells. TIGIT is a novel member of the Ig-superfamily distantly related to Nectins and Necls that aligns with the distal Ig-V-type domains of Nectin, poliovirus receptor (PVR; CD155), DNAM-1 (CD226), and TACTILE (CD96). TIGIT is an attractive target for cancer therapy due to its role as an immune checkpoint. Immunotherapy targeting TIGIT and the PD-1/PD-L1 pathway is capable of tumor suppression.

1B4 was generated by immunizing TIGIT - / - mice with recombinant mouse TIGIT tetramers. Draining lymph nodes were collected, cells fused with Sp2/0-Ag14, supernatants screened for specific binding by anti-TIGIT ELISA and flow cytometry, and ultimately binding specificity was confirmed by staining wild-type, activated, primary TIGIT-expressing T cells.

Product Info

Amount :	5mg / 1 mg
Purification :	≥95% monomer by analytical SEC·>95% by SDS Page Preparation: Functional grade preclinical antibodies are manufactured in an animal free facility using only in vitro protein free cell culture techniques and are purified by a multi-step process including the use of protein A or G to assure extremely low levels of endotoxins, leachable protein A or aggregates.
Content :	Concentration: ≥ 5.0 mg/ml Formulation: This monoclonal antibody is aseptically packaged and formulated in 0.01 M phosphate buffered saline (150 mM NaCl) PBS pH 7.2 - 7.4 with no carrier protein, potassium, calcium or preservatives added. Due to inherent biochemical properties of antibodies, certain products may be prone to precipitation over time. Precipitation may be removed by aseptic centrifugation and/or filtration.
Storage condition :	Functional grade preclinical antibodies may be stored sterile as received at 2-8°C for up to one month. For longer term storage, aseptically aliquot in working volumes without diluting and store at ≤ -70°C. Avoid Repeated Freeze Thaw Cycles.

For Research Use Only. Not for use in diagnostic/therapeutics procedures.

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Application Note

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