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Recombinant Mouse TIGIT Fc-Fusion Protein

Cat No: Pr00163-1.9

Product Summary

Description: Recombinant mouse TIGIT Fc-Fusion Protein manufactured using [AbAb's Recombinant Platform](#)

Protein: Mouse TIGIT

Fc domain: Mouse IgG1

Structure / Form: Disulfide-linked homodimer

Species: Mouse

Construct Design Note(s): The extracellular domain of TIGIT has been fused to the Fc domain of mouse IgG1.

Host: HEK293

UniProt Accession Number: P86176

Alternative Description: T-cell immunoreceptor with Ig and ITIM domains; V-set and transmembrane domain-containing protein 3; TIGIT-Ig; TIGIT-Fc chimera; TIGIT (Fc tag)

Published Application(s):

Tested Applications(s): ELISA

Activity: Binds with high affinity to the poliovirus receptor (PVR) 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 (By similarity) [Uniprot].

Product Form

Purification: IMAC purified

Supplied in: 0.1 mg size: PBS with preservative (0.02% Proclin 300), 1 mg size: PBS only.

Endotoxin: <1.0 EU/mg

Shipping: The product is shipped on blue ice. Upon receipt, store it immediately at the temperature recommended.

Storage Recommendation: Store at 4°C for up to 1 month. For longer term storage aliquot in small volumes and store at -20°C. Avoid repeated freeze-thaw cycles.

SDS PAGE Purity: >95%, as determined by SDS-PAGE and visualized by Coomassie Brilliant Blue.

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

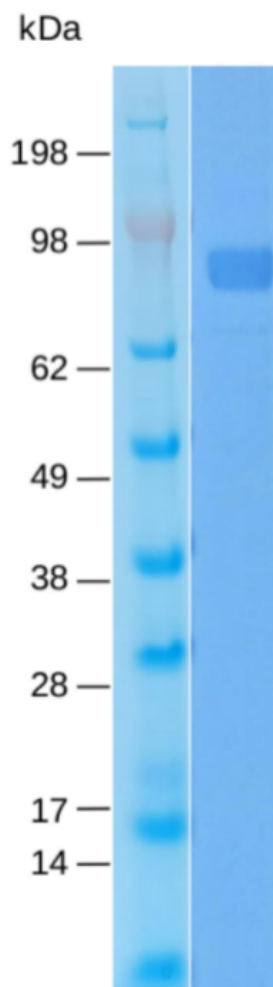
Fc-Fusion Sequence (monomer)

GTIDTKRNISAEEGGSVILQCHFSSDTAEVTQVDWKQQDQLLAIYSVDLGWHVASVFSDRVVPGPSLGLTFQSLTMNDT
GEYFCTYHTYPGGIYKGRIFLKVQESSDDRNGLAQFQTAPLGGGGSVPRDQGCKPCICTVPEVSSVFIFPPKPKDVLT
TLTPKVTCVVVDISKDDPEVQFSWFVDDVEVHTAQTTPREEQINSTFRSVSELPIMHQDWLNGKEFKCRVNSAAFPAPI
EKTISKTKGRPKAPQVYTIPPPKEQMAKDKVSLTCMITNFFPEDITVEWQWNGQPAENYKNTQPIMDTDGSYFVYSKLN
VQKSNWEAGNTFTCSVLHEGLHNNHTEKSLSHSPGKHHHHHH

Underlined amino acids sequence include a G4S linker and 6xHis epitope tag, respectively.

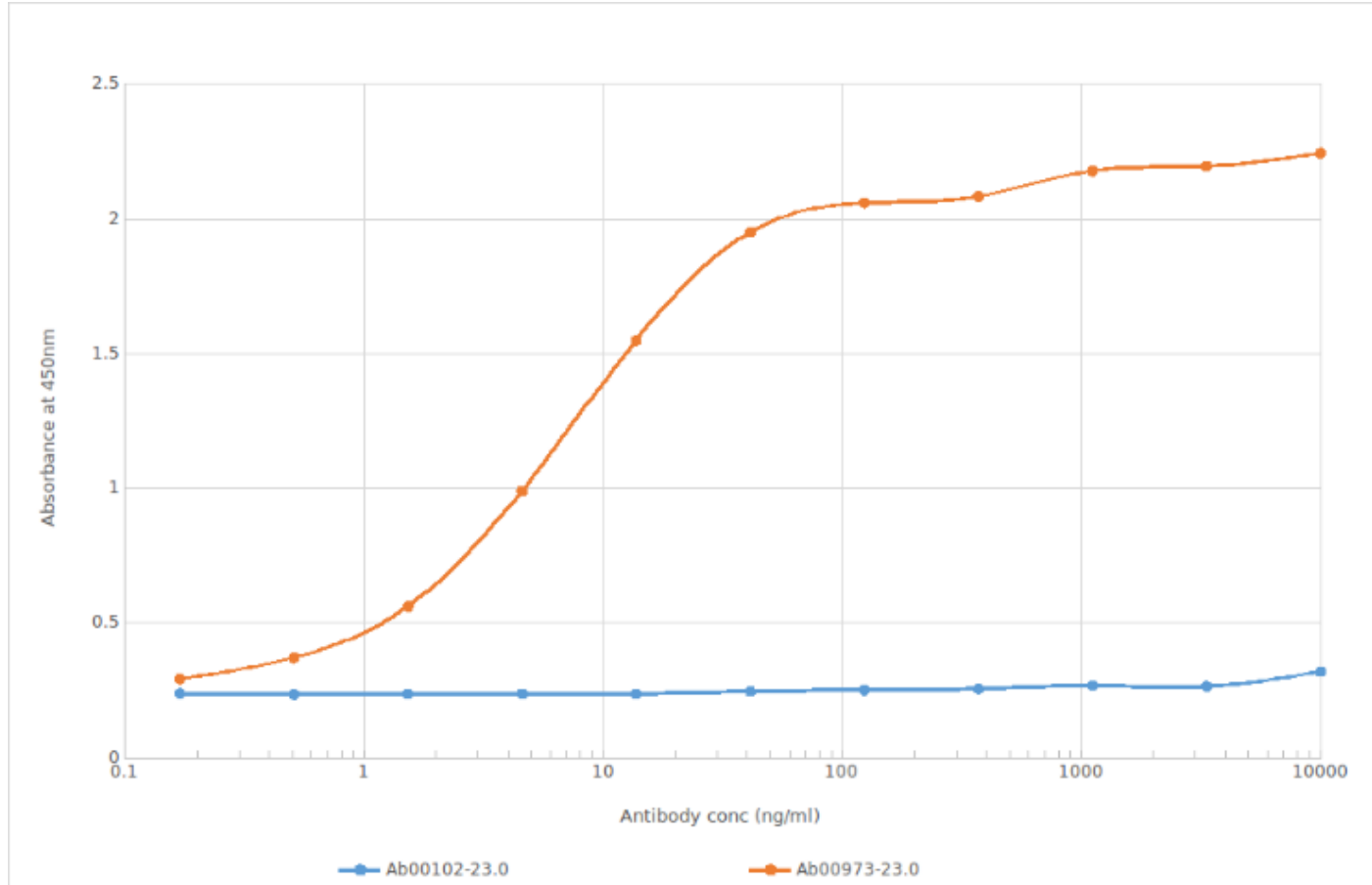
Calculated Molecular weight (dimer): 79961 Da

Extinction coefficient: 105320 (calculation performed as described by Pace *et al.* (1995), PMID: 8563639).



TIGIT (Pr00163-1.9) SDS-PAGE. Pr00163-1.9 under non-reducing conditions resolved by SDS-PAGE and stained using Coomassie-Blue.

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ELISA of anti-TIGIT antibody on TIGIT-Fc fusion protein. Binding curves of the rabbit chimeric IgG version of the anti-TIGIT antibody 4D4 (Ab00973-23.0; red line) and isotype control (Ab00102-23.0, anti-Fluorescein; blue line) to an ELISA plate coated with mouse TIGIT-Fc fusion protein (Pr00163-1.9) at a concentration of 5 μ g/ml. A 3-fold serial dilution from 10,000 to 0.17 ng/ml was performed using Ab00973-23.0. For signal detection, a 1:4000 dilution of HRP-labelled anti-rabbit IgG1 (BioRad 5196-2504) antibody was used. The second increase in absorbance at 1000ng/ml is suggestive of a possible secondary binding epitope for Ab00973-23.0 on Pr00163-1.9.