SZABO SCANDIC

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Produktinformation

- Forschungsprodukte & Biochemikalien
- Zellkultur & Verbrauchsmaterial
- Diagnostik & molekulare Diagnostik
- Laborgeräte & Service

Weitere Information auf den folgenden Seiten!
See the following pages for more information!

Lieferung & Zahlungsart

siehe unsere Liefer- und Versandbedingungen

Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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MAdCAM1, Fc-Fusion (IgG1), Avi-Tag, Biotin-Labeled Recombinant

Catalog: 102495
Lot: 241217

Product Information

Description:	Recombinant MAdCAM1 (Mucosal addressin cell adhesion molecule 1), encompassing amino acids 19-333. This construct contains at the C-terminus the Fc domain of a human IgG1, followed by an Avi-Tag™. This protein is enzymatically biotinylated using Avi-Tag™ technology and affinity purified.
Background:	MAdCAM1 (Mucosal addressin cell adhesion molecule 1) is a member of the immunoglobulin superfamily involved in guiding memory T cells and other immune cells to mucosal tissues. MAdCAM1 binds to lymphocyte receptor LPAM-1 (lymphocyte Peyer's patch HEV adhesion molecule 1), also known as integrin α4β7 (ITGA4-ITGB7), a key interaction that guides lymphocytes to the gastrointestinal system. MAdCAM1 is linked to inflammatory bowel diseases, such as Crohn's disease and ulcerative colitis (UC), as well as colon cancer. MAdCAM1-targeting monoclonal antibodies and small molecule inhibitors aim to alleviate these gastrointestinal diseases, including FDA-approved Vedolizumab, and other therapeutics currently undergoing clinical trials.
Species:	Human
Construct:	MAdCAM1 (19-333-Fc(IgG1)-Avi)-(Biotin)
Concentration:	2.04 mg/ml
Expression System:	HEK293
Purity:	≥90%
Format:	Aqueous buffer solution.
Formulated In:	8 mM phosphate, 110 mM NaCl, 2.2 mM KCl, pH 7.4, and 20% glycerol
MW:	62 kDa + glycans
Glycosylation:	This protein runs at a higher MW by SDS-PAGE due to glycosylation.
Label:	This protein is enzymatically biotinylated using Avi-Tag™ technology. Biotinylation is confirmed to be ≥90%.
Genbank Accession:	DQ076657
Stability:	At least 6 months at -80°C.
Storage:	-80°C
Instructions for Use:	Thaw on ice and gently mix prior to use. DO NOT VORTEX. Perform a quick spin before opening. Aliquot into small volumes and flash freeze for long term storage. Avoid multiple freeze/thaw cycles.
Assay Conditions:	A white 96-well plate was precoated with ITGA4-ITGB7 protein (AcroBiosystems #IT7-H52W4) (200 ng/well). Superblock™ TBS Blocking Buffer (Thermo Fisher Scientific #37581) with 2 mM $MnCl_2$ and TBST with 2 mM $MnCl_2$ were used for blocking and washing steps, respectively. For protein titration a serial dilution of MAdCAM1, Fc-Fusion (IgG1), Avi-Tag, Biotin-Labeled Recombinant (BPS Bioscience #102495) at the highest concentration of 10 ng/µl (250 ng/reaction) was prepared in 1x Assay Buffer. Diluted MAdCAM1 was then added to the wells and incubated at Room Temperature (RT) for 1 hour. The plate was washed again and incubated with Streptavidin-HRP diluted 1:1000 in Superblock™ TBS Blocking Buffer with 2 mM $MnCl_2$ for 1 hour at RT. After the final wash, ELISA ECL mix (BPS Bioscience #79670) was added to each well and chemiluminescence was read.
Applications:	Useful for binding assays and avidin-pull down assays.

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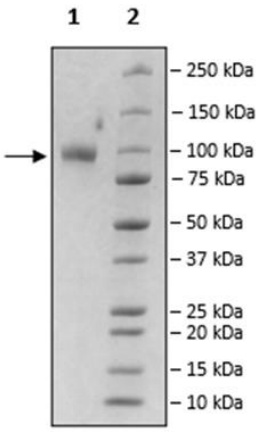
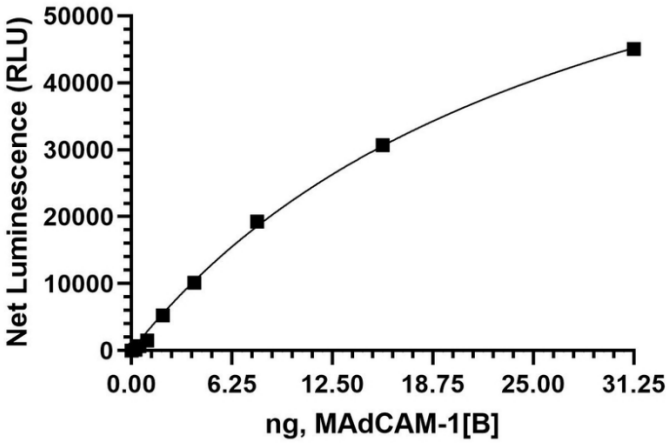
Quality Control Data

4-20% SDS-PAGE Coomassie Staining



ITGA4-ITGB7:MAdCAM1[B] Activity



Biotin-Avidin Pulldown