



SZABO SCANDIC

Part of Europa Biosite

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

SZABO-SCANDIC HandelsgmbH

Quellenstraße 110, A-1100 Wien

T. +43(0)1 489 3961-0

F. +43(0)1 489 3961-7

mail@szabo-scandic.com

www.szabo-scandic.com

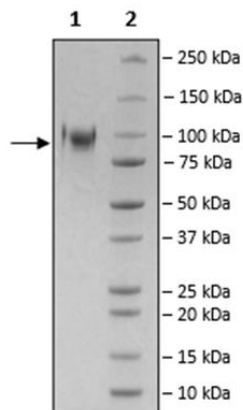
[linkedin.com/company/szaboscandic](https://www.linkedin.com/company/szaboscandic) 

Product Information

Description:	Recombinant MAdCAM1 (Mucosal addressin cell adhesion molecule 1), variant 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™. The recombinant protein was 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 $\alpha 4\beta 7$ (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)
Concentration:	1.78 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.
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, Recombinant (BPS Bioscience #102494) 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 anti-Fc-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.

Quality Control Data

4-20% SDS-PAGE Coomassie Staining



ITGA4-ITGB7:MAdCAM1 Activity

