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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

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) 

STIM1 monoclonal antibody (M01), clone 5A2

Catalog # : H00006786-M01

規格 : [100 ug]

[List All](#)

Specification

Product Description: Mouse monoclonal antibody raised against a full length recombinant STIM1.

Immunogen: STIM1 (AAH21300, 24 a.a. ~ 685 a.a) full-length recombinant protein with GST tag. MW of the GST tag alone is 26 KDa.

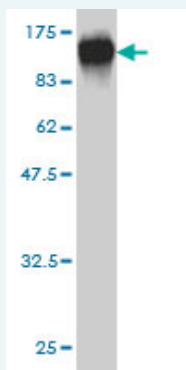
Sequence:
 SHSHSEKATGTSSGANSEESTAAEFCRIDKPLCHSEDEKLSFEAVRNIHK
 LMDDDANGDVDVEESDEFLREDLNYHDPTVKHSTFHGEDKLISVEDLWK
 AWKSSEVYNWTVDEVVQWLITYVELPQYEETFRLQLSGHAMPRLAVT
 NTTMTGAVLKMTDRSHRQKLQKALDVTLVFGPPLLTRHNHLKDFMLVVS
 IVIGVGGCWFAYIQNRYKSHEHMKMMKMLEGLHRAEQSLHDLQERLHKA
 QEEHRTVEVEKVLHLEKKLRDEINLAKQEAQRLKELREGTENERSRQKYA
 EEELEQVREALRKAKEKESHSSWYAPEALQKWLQLTHEVEVQYYNIKK
 QNAEKQLLVAKEGAEKIKKKRNTLFGTFHVAHSSSLDDVDHKILTAKQAL
 SEVTAALRERLHRWQQIEILCGFQIVNPNGIHSLVAALNIDPSWMGSTRPN
 PAHFIMTDDVDDMDEEIVSPLSMQSPSLQSSVRQRLTEPQHGLGSQRDL
 THSDSESSLHMSDRQRVAPKPPQMSRAADEALNAMTNGSHRLIEGVHP
 GSLVEKLPDSPALAKKALLALNHGLDKAHSMLMELSPSAPPGGSPHLDSSR
 SHSPSPDPDTPSPVGDSTRALQASRNTRIPHLAGKKAVAEEDNGSIGEET
 DSSPGRKKFPLKIFKKPLKK

Host: Mouse

Reactivity: Human

Isotype: IgG2a Kappa

Quality Control Testing: Antibody Reactive Against Recombinant Protein.



Western Blot detection against Immunogen (98.56 KDa) .

Storage Buffer: In 1x PBS, pH 7.4

Storage Instruction: Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.

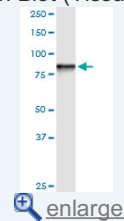
MSDS: [Download](#)

Datasheet: [Download](#)

Publication Reference

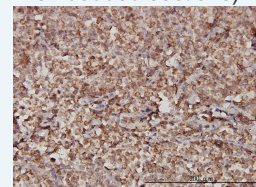
Application Image

Western Blot (Tissue lysate)

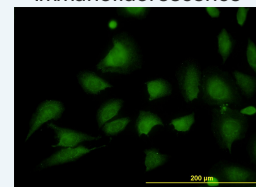


Western Blot (Recombinant protein)

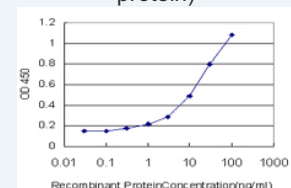
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)



Immunofluorescence



Sandwich ELISA (Recombinant protein)



ELISA

1. BAX inhibitor-1 is a Ca²⁺ channel critically important for immune cell function and survival.
Lisak D, Schacht T, Gawlitz A, Albrecht P, Aktas O, Koop B, Gliem M, Hofstetter HH, Zanger K, Bultynck G, Parys JB, De Smedt H, Kindler T, Adams-Quack P, Hahn M, Waisman A, Reed JC, Hovelmeier N, Methner A. *Cell Death Differ.* 2015 Oct 16.

2. IL-9 induces IL-8 production via STIM1 activation and ERK phosphorylation in epidermal keratinocytes: A plausible mechanism of IL-9R in atopic dermatitis.
Hong CH, Chang KL, Wang HJ, Yu HS, Lee CH. *J Dermatol Sci.* 2015 Jun;78(3):206-14.

3. Identification of stim1 as a candidate gene for exaggerated sympathetic response to stress in the stroke-prone spontaneously hypertensive rat.
Ferdous MZ, Xiao B, Ohara H, Nemoto K, Harada Y, Saar K, Hubner N, Isomura M, Nabika T. *PLoS One.* 2014 Apr 15;9(4):e95091. doi: 10.1371/journal.pone.0095091. eCollection 2014.

4. Store-Operated Ca(2+) Entry (SOCE) Regulates Melanoma Proliferation and Cell Migration.
Umamura M, Baljinnyam E, Feske S, De Lorenzo MS, Xie LH, Feng X, Oda K, Makino A, Fujita T, Yokoyama U, Iwatsubo M, Chen S, Goydos JS, Ishikawa Y, Iwatsubo K. *PLoS One.* 2014 Feb 21;9(2):e89292. doi: 10.1371/journal.pone.0089292. eCollection 2014.

5. SGK3 Regulates Ca Entry and Migration of Dendritic Cells.
Schmid E, Bhandaru M, Nurbaeva MK, Yang W, Sztayn K, Russo A, Leibrock C, Tyan L, Pearce D, Shumilina E, Lang F. *Cell Physiol Biochem.* 2012;30(6):1423-35. doi: 10.1159/000343330. Epub 2012 Nov 22.

6. Lysophosphatidic Acid Promotes Cell Migration through STIM1- and Orai1-Mediated Ca(2+)(i) Mobilization and NFAT2 Activation.
Jans R, Mottram L, Johnson DL, Brown AM, Sikkink S, Ross K, Reynolds NJ. *Invest Dermatol.* 2013 Mar;133(3):793-802. doi: 10.1038/jid.2012.370. Epub 2012 Oct 25.

7. Stromal interaction molecule 1 (STIM1) is involved in the regulation of mitochondrial shape and bioenergetics and plays a role in oxidative stress.
Henke N, Albrecht P, Pfeiffer A, Toutzaris D, Zanger K, Methner A. *J Biol Chem.* 2012 Oct 17. [Epub ahead of print]

8. Intracellular cyclophilin A is an important Ca²⁺ regulator in platelets and critically involved in arterial thrombus formation.
Elvers M, Herrmann A, Seizer P, Munzer P, Beck S, Schonberger T, Borst O, Martin-Romero FJ, Lang F, May AE, Gawaz M. *Blood.* 2012 Aug 9;120(6):1317-26. Epub 2012 Jun 27.

9. Transcription factor NF-κB regulates the expressions of a pore-forming unit, Orai1, and its activator, STIM1, to control Ca²⁺ entry and affect cellular functions.
Eylenstein A, Schmidt S, Gu S, Yang W, Schmid E, Schmidt EM, Alesutan I, Sztayn K, Regel I, Shumilina E, Lang F. *J Biol Chem.* 2011 Nov 21.

10. Store-operated calcium entry modulates neuronal network activity in a model of chronic epilepsy.
Steinbeck JA, Henke N, Opatz J, Gruszczynska-Biegala J, Schneider L, Theiss S, Hamacher N, Steinfarz B, Goltz S, Brustle O, Kuznicki J, Methner A. *Exp Neurol.* 2011 Aug 30. [Epub ahead of print]

11. STIM1 as a key regulator for Ca²⁺ homeostasis in skeletal-muscle development and function.
Kiviluoto S, Decuyper JP, De Smedt H, Missiaen L, Parys JB, Bultynck G. *Skelet Muscle.* 2011 Apr 4;1(1):16.

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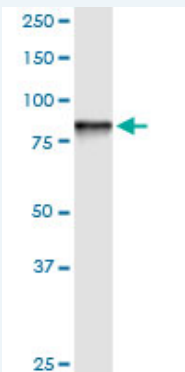
14. Activation of TRPC1 by STIM1 in ER-PM microdomains involves release of the channel from its scaffold caveolin-1.
Pani B, Ong HL, Brazer SC, Liu X, Rauser K, Singh BB, Ambudkar IS. *Proc Natl Acad Sci U S A.* 2009 Nov 24;106(47):20087-20092. Epub 2009 Nov 6.

15. STIM1-Independent T Cell Development and Effector Function In Vivo.
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17. STIM1 is essential for Fc{gamma} receptor activation and autoimmune inflammation.
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18. The calcium sensor STIM1 is an essential mediator of arterial thrombosis and ischemic brain infarction.
Varga-Szabo D, Braun A, Kleinschnitz C, Bender M, Pleines I, Pham M, Renne T, Stoll G, Nieswandt B. *J Exp Med.* 2008 Jul 7;205(7):1583-91. Epub 2008 Jun 16.
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Pani B, Ong HL, Liu X, Rauser K, Ambudkar IS, Singh BB. *J Biol Chem.* 2008 Jun 20;283(25):17333-40. Epub 2008 Apr 22.
20. STIM1 converts TRPC1 from a receptor-operated to a store-operated channel: Moving TRPC1 in and out of lipid rafts.
Alicia S, Angelica Z, Carlos S, Alfonso S, Luis V. *Cell Calcium.* 2008 Nov;44(5):479-91. Epub 2008 May 23.
21. An EF hand mutation in Stim1 causes premature platelet activation and bleeding in mice.
Grosse J, Braun A, Varga-Szabo D, Beyersdorf N, Schneider B, Zeitlmann L, Hanke P, Schropp P, Muhlstedt S, Zorn C, Huber M, Schmittwolf C, Jagla W, Yu P, Kerkau T, Schulze H, Nehls M, Nieswandt B. *J Clin Invest.* 2007 Nov 1;117(11):3540-3550.

Applications

Western Blot (Tissue lysate)



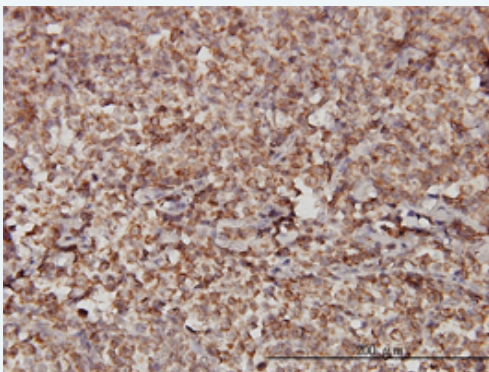
STIM1 monoclonal antibody (M01), clone 5A2. Western Blot analysis of STIM1 expression in human liver.

 [Protocol Download](#)

Western Blot (Recombinant protein)

 [Protocol Download](#)

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)

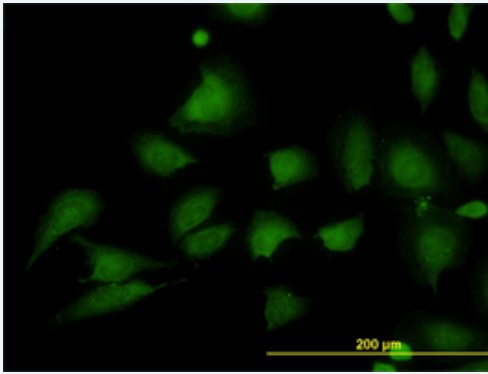


 [enlarge this image](#)

Immunoperoxidase of monoclonal antibody to STIM1 on formalin-fixed paraffin-embedded human malignant lymphoma, diffuse large B. [antibody concentration 3 ug/ml]

 [Protocol Download](#)

Immunofluorescence

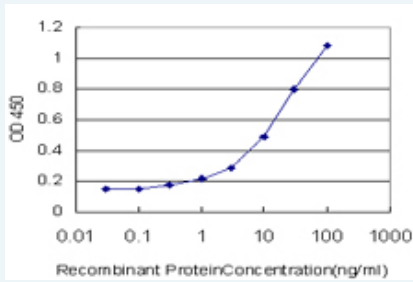


[enlarge this image](#)

Immunofluorescence of monoclonal antibody to STIM1 on HeLa cell. [antibody concentration 10 ug/ml]

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Sandwich ELISA (Recombinant protein)



Detection limit for recombinant GST tagged STIM1 is approximately 0.3ng/ml as a capture antibody.

[Protocol Download](#)

ELISA

Gene Information

Entrez GeneID: [6786](#)

GeneBank [BC021300](#)

Accession#:

Protein [AAH21300](#)

Accession#:

Gene Name: STIM1

Gene Alias: D11S4896E,GOK

Gene Description: stromal interaction molecule 1

Omim ID: [605921](#)

Gene Ontology: [Hyperlink](#)

Gene Summary: This gene encodes a type 1 transmembrane protein that mediates Ca²⁺ influx after depletion of intracellular Ca²⁺ stores by gating of store-operated Ca²⁺ influx channels (SOCs). It is one of several genes located in the imprinted gene domain of 11p15.5, an important tumor-suppressor gene region. Alterations in this region have been associated with the Beckwith-Wiedemann syndrome, Wilms tumor, rhabdomyosarcoma, adrenocrotical carcinoma, and lung, ovarian, and breast cancer. This gene may play a role in malignancies and disease that involve this region, as well as early hematopoiesis, by mediating attachment to stromal cells. This gene is oriented in a head-to-tail configuration with the ribonucleotide reductase 1 gene (RRM1), with the 3' end of this gene situated 1.6 kb from the 5' end of the RRM1 gene

Other -
Designations:

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