



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) 

Anti-TrpM7 Antibody [S74-25]

Mouse Anti-Mouse TrpM7 Monoclonal IgG1
Catalog No. SMC-316



Discovery through partnership | Excellence through quality

Overview

Product Name

TrpM7 Antibody

Description

Mouse Anti-Mouse TrpM7 Monoclonal IgG1

Species Reactivity

Human, Mouse, Rat

Applications

WB, IHC, ICC/IF

Antibody Dilution

WB (1:1000), IHC (1:1000), ICC/IF (1:100); optimal dilutions for assays should be determined by the user.

Host Species

Mouse

Immunogen Species

Mouse

Immunogen

Fusion protein amino acids 1817-1863 (C- terminus) of mouse TrpM7

Concentration

1 mg/ml

Conjugates

Alkaline Phosphatase, APC, ATTO 390, ATTO 488, ATTO 565, ATTO 594, ATTO 633, ATTO 655, ATTO 680, ATTO 700, Biotin, FITC, HRP, PE/ATTO 594, PerCP, RPE, Streptavidin, Unconjugated

Properties

Storage Buffer

PBS pH7.4, 50% glycerol, 0.09% sodium azide

Storage Temperature

-20°C

Shipping Temperature

Blue Ice or 4°C

Purification

Protein G Purified

Clonality

Monoclonal

Clone Number

S74-25

Isotype

IgG1

Specificity

Detects ~220kDa. No cross-reactivity against TrpM6.

Cite This Product

Mouse Anti-Mouse TRPM7 Monoclonal, Clone S74-25 (StressMarq Biosciences Inc., Victoria BC CANADA, Catalog # SMC-316)

Certificate Of Analysis

1 µg/ml of SMC-316 was sufficient for detection of TrpM7 in 10 µg of COS cell lysate transiently transfected with TrpM7 by colorimetric immunoblot analysis using Goat anti-mouse IgG:HRP as the secondary antibody.

Biological Description

Alternative Names

CHAK antibody, CHAK1 antibody, Channel kinase 1 antibody, Channel-kinase 1 antibody, Long transient receptor potential channel 7 antibody, LTrpC-7 antibody, LTRPC7 antibody, Transient receptor potential cation channel subfamily M member 7 antibody, TRP PLIK antibody, TRPM7 antibody, TRPM7_HUMAN antibody

Research Areas

ALS Disease, Ion Channels, Neurodegeneration, Neuroscience, Parkinson's Disease, Transient Receptor Potential Channels

Cellular Localization

Membrane

Accession Number

NP_001157797.1

Gene ID

58800

Swiss Prot

Q923J1

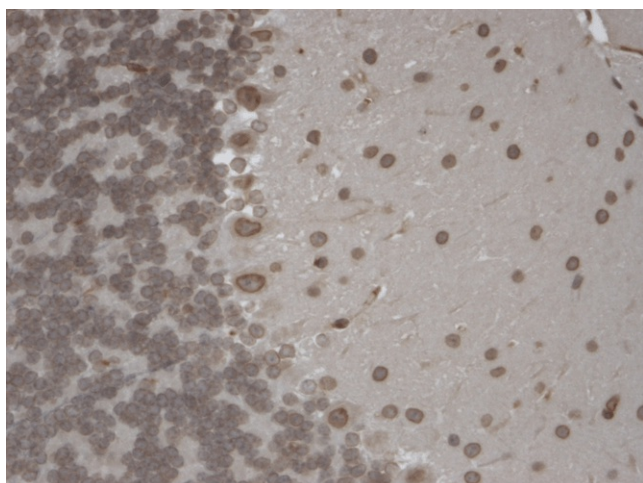
Scientific Background

TRPs, mammalian homologs of the *Drosophila* transient receptor potential (*trp*) protein, are ion channels that are thought to mediate capacitative calcium entry into the cell. TRP-PLIK is a protein that is both an ion channel and a kinase. As a channel, it conducts calcium and monovalent cations to depolarize cells and increase intracellular calcium. As a kinase, it is capable of phosphorylating itself and other substrates. The kinase activity is necessary for channel function, as shown by its dependence on intracellular ATP and by the kinase mutants (1, 2).

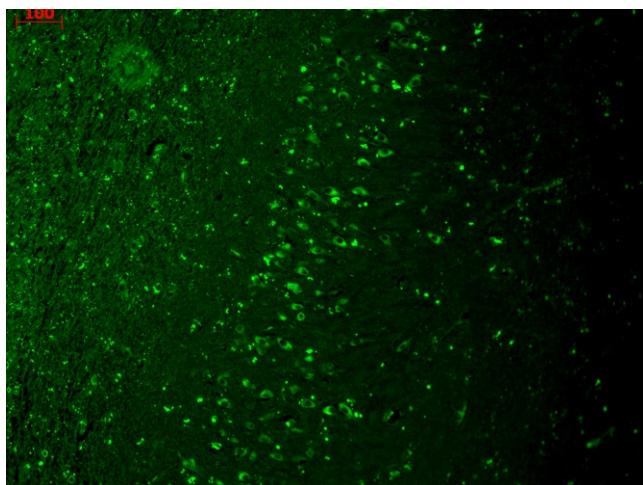
References

1. Brauchi S., Krapivinsky G., Krapivinsky L., Clapham D.E. (2008) Proc Natl Acad Sci USA. 105(24): 8304-8308.

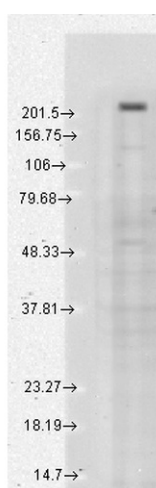
Product Images



Immunohistochemistry analysis using Mouse Anti-TrpM7 Monoclonal Antibody, Clone S74-25 (SMC-316). Tissue: Brain Slice. Species: Mouse. Fixation: 10% Formalin Solution for 12-24 hours at RT. Primary Antibody: Mouse Anti-TrpM7 Monoclonal Antibody (SMC-316) at 1:1000 for 1 hour at RT. Secondary Antibody: HRP/DAB Detection System: Biotinylated Goat Anti-Mouse, Streptavidin Peroxidase, DAB Chromogen (brown) for 30 minutes at RT. Counterstain: Mayer Hematoxylin (purple/blue) nuclear stain at 250-500 μ l for 5 minutes at RT. Localization: Nuclear staining of both neurons and glia.



Immunohistochemistry analysis using Mouse Anti-TrpM7 Monoclonal Antibody, Clone S74-25 (SMC-316). Tissue: hippocampus. Species: Human. Fixation: Bouin's Fixative and paraffin-embedded. Primary Antibody: Mouse Anti-TrpM7 Monoclonal Antibody (SMC-316) at 1:1000 for 1 hour at RT. Secondary Antibody: FITC Goat Anti-Mouse (green) at 1:50 for 1 hour at RT.



Western Blot analysis of Human Cell lysates showing detection of TrpM7 protein using Mouse Anti-TrpM7 Monoclonal Antibody, Clone S74-25 (SMC-316). Load: 15 μ g protein. Block: 1.5% BSA for 30 minutes at RT. Primary Antibody: Mouse Anti-TrpM7 Monoclonal Antibody (SMC-316) at 1:1000 for 2 hours at RT. Secondary Antibody: Sheep Anti-Mouse IgG: HRP for 1 hour at RT.

Product Citations (2)

Other Citations

Biomarker Analysis with Grating Coupled Surface Plasmon Coupled Fluorescence.

Mendoza, A., Dias, J.A., Zeltner, T. and Lawrence, D.A. (2014) J Adv Bio & Biotech. 1(1): 1-22.

PubMed ID: **Reactivity:** Human **Applications:** Antibody Microarray

Biomarker Analysis with Grating Coupled Surface Plasmon Coupled Fluorescence.

Mendoza, A., Dias, J.A., Zeltner, T. and Lawrence, D.A. (2014) J Adv Bio & Biotech. 1(1): 1-22.

PubMed ID: **Reactivity:** Mouse **Applications:** Antibody Microarray

Reviews

There are no reviews yet.