



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) 

TMEM43 (m): 293T Lysate: sc-124169

BACKGROUND

TMEM43 (transmembrane protein 43), also known as LUMA, ARVC5 or ARVD5, is a 400 amino acid multi-pass membrane protein that localizes to the inner nuclear membrane, as well as to the endoplasmic reticulum. Highly expressed in placenta and present at lower levels in ovary, heart, thymus, spleen, prostate, testis and small intestine, TMEM43 is required for retaining emerin at the nuclear membrane and may also play an important role in the maintenance of nuclear envelope structure. Defects in the gene encoding TMEM43 are the cause of familial arrhythmogenic right ventricular dysplasia type 5 (ARVD5), an inherited disorder that is characterized by heart failure, ventricular tachycardia, fibrofatty replacement of cardiomyocytes and sudden cardiac death.

REFERENCES

- Ahmad, F., Li, D., Karibe, A., Gonzalez, O., Tapscott, T., Hill, R., Weilbaecher, D., Blackie, P., Furey, M., Gardner, M., Bachinski, L.L. and Roberts, R. 1998. Localization of a gene responsible for arrhythmogenic right ventricular dysplasia to chromosome 3p23. *Circulation* 98: 2791-2795.
- Norman, M.W. and McKenna, W.J. 1999. Arrhythmogenic right ventricular cardiomyopathy: perspectives on disease. *Z. Kardiol.* 88: 550-554.
- Li, D., Ahmad, F., Gardner, M.J., Weilbaecher, D., Hill, R., Karibe, A., Gonzalez, O., Tapscott, T., Sharratt, G.P., Bachinski, L.L. and Roberts, R. 2000. The locus of a novel gene responsible for arrhythmogenic right ventricular dysplasia characterized by early onset and high penetrance maps to chromosome 10p12-p14. *Am. J. Hum. Genet.* 66: 148-156.
- Dreger, M., Bengtsson, L., Schöneberg, T., Otto, H. and Hucho, F. 2001. Nuclear envelope proteomics: novel integral membrane proteins of the inner nuclear membrane. *Proc. Natl. Acad. Sci. USA* 98: 11943-11948.
- Merner, N.D., Hodgkinson, K.A., Haywood, A.F., Connors, S., French, V.M., Drenkhahn, J.D., Kupprion, C., Ramadanova, K., Thierfelder, L., McKenna, W., Gallagher, B., Morris-Larkin, L., Bassett, A.S., Parfrey, P.S. and Young, T.L. 2008. Arrhythmogenic right ventricular cardiomyopathy type 5 is a fully penetrant, lethal arrhythmic disorder caused by a missense mutation in the TMEM43 gene. *Am. J. Hum. Genet.* 82: 809-821.
- Bengtsson, L. and Otto, H. 2008. LUMA interacts with emerin and influences its distribution at the inner nuclear membrane. *J. Cell Sci.* 121: 536-548.
- Online Mendelian Inheritance in Man, OMIM™. 2008. Johns Hopkins University, Baltimore, MD. MIM Number: 612048. World Wide Web URL: <http://www.ncbi.nlm.nih.gov/omim/>

CHROMOSOMAL LOCATION

Genetic locus: Tmem43 (mouse) mapping to 6 D1.

PRODUCT

TMEM43 (m): 293T Lysate represents a lysate of mouse TMEM43 transfected 293T cells and is provided as 100 µg protein in 200 µl SDS-PAGE buffer.

RESEARCH USE

For research use only, not for use in diagnostic procedures.

APPLICATIONS

TMEM43 (m): 293T Lysate is suitable as a Western Blotting positive control for mouse reactive TMEM43 antibodies. Recommended use: 10-20 µl per lane.

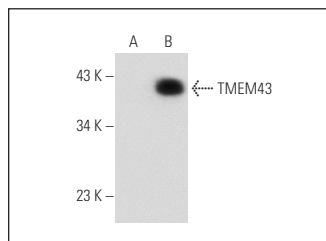
Control 293T Lysate: sc-117752 is available as a Western Blotting negative control lysate derived from non-transfected 293T cells.

TMEM43 (F-3): sc-271887 is recommended as a positive control antibody for Western Blot analysis of enhanced mouse TMEM43 expression in TMEM43 transfected 293T cells (starting dilution 1:100, dilution range 1:100-1:1,000).

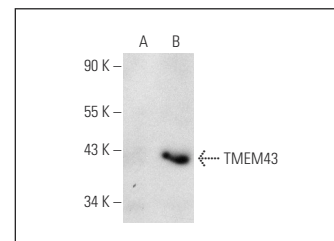
RECOMMENDED SUPPORT REAGENTS

To ensure optimal results, the following support reagents are recommended:
 1) Western Blotting: use m-IgGλ BP-HRP: sc-516132 or m-IgGλ BP-HRP (Cruz Marker): sc-516132-CM (dilution range: 1:1000-1:10000), Cruz Marker™ Molecular Weight Standards: sc-2035, UltraCruz® Blocking Reagent: sc-516214 and Western Blotting Luminol Reagent: sc-2048.

DATA



TMEM43 (F-3): sc-271887. Western blot analysis of TMEM43 expression in non-transfected: sc-117752 (A) and mouse TMEM43 transfected: sc-124169 (B) 293T whole cell lysates.



TMEM43 (E-1): sc-365298. Western blot analysis of TMEM43 expression in non-transfected: sc-117752 (A) and mouse TMEM43 transfected: sc-124169 (B) 293T whole cell lysates.

STORAGE

Store at -20° C. Repeated freezing and thawing should be minimized. Sample vial should be boiled once prior to use. Non-hazardous. No MSDS required.

PROTOCOLS

See our web site at www.scbt.com for detailed protocols and support products.