



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) 

GS27 (h3): 293T Lysate: sc-174708

BACKGROUND

In eukaryotic cells, the Golgi apparatus receives newly synthesized proteins from the endoplasmic reticulum and delivers them after covalent modification to their destination in the cell. For membrane-directed proteins this process is believed to be carried out via vesicular transport. Correct vesicular transport is determined by specific pairing of vesicle-associated SNAREs (v-SNAREs) with those on the target membrane (t-SNAREs). This complex then recruits soluble NSF attachment proteins (SNAPs) and N-ethylmaleimide-sensitive factor (NSF) to form the highly stable SNAP receptor (SNARE) complex. The formation of a SNARE complex pulls the vesicle and target membranes together and may provide the energy to drive the fusion of the lipid bilayers. GS27 and GS28 belong to the SNARE protein family and are important trafficking proteins between the endoplasmic reticulum and the Golgi and between Golgi subcompartments. GS27 and GS28 both exist as cytoplasmically oriented integral membrane proteins. The human GS27 gene is located near a locus implicated in familial essential hypertension, indicating that it is a potential candidate gene for this disease. The human GS28 gene maps to chromosome 17q11.

REFERENCES

1. Nagahama, M., Orci, L., Ravazzola, M., Amherdt, M., Lacomis, L., Tempst, P., Rothman, J.E. and Sollner, T.H. 1996. A v-SNARE implicated in intra-Golgi transport. *J. Cell. Biol.* 133: 507-516.
2. Lowe, S.L., Peter, F., Subramaniam, V.N., Wong, S.H. and Hong, W. 1997. A SNARE involved in protein transport through the Golgi apparatus. *Nature* 389: 881-884.
3. Hay, J.C., Chao, D.S., Kuo, C.S. and Scheller, R.H. 1997. Protein interactions regulating vesicle transport between the endoplasmic reticulum and Golgi apparatus in mammalian cells. *Cell* 89: 149-158.
4. Bui, T.D., Levy, E.R., Subramaniam, V.N., Lowe, S.L. and Hong, W. 1999. cDNA characterization and chromosomal mapping of human Golgi SNARE GS27 and GS28 to chromosome 17. *Genomics* 57: 285-288.
5. Bentz, J. and Mittal, A. 2000. Deployment of membrane fusion protein domains during fusion. *Cell Biol. Int.* 24: 819-938.
6. Gmachl, M.J. and Wimmer, C. 2001. Sequential involvement of p115, SNAREs, and Rab proteins in intra-Golgi protein transport. *J. Biol. Chem.* 276: 18178-18184.
7. LocusLink Report (LocusID: 9527). <http://www.ncbi.nlm.nih.gov/LocusLink/>

CHROMOSOMAL LOCATION

Genetic locus: GOSR2 (human) mapping to 17q21.32.

PRODUCT

GS27 (h3): 293T Lysate represents a lysate of human GS27 transfected 293T cells and is provided as 100 µg protein in 200 µl SDS-PAGE buffer.

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.

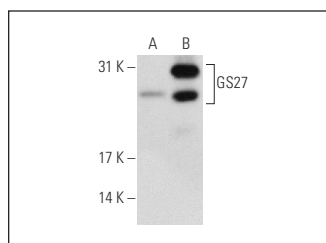
APPLICATIONS

GS27 (h3): 293T Lysate is suitable as a Western Blotting positive control for human reactive GS27 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.

GS27 (25): sc-135932 is recommended as a positive control antibody for Western Blot analysis of enhanced human GS27 expression in GS27 transfected 293T cells (starting dilution 1:100, dilution range 1:100-1:1,000).

DATA



GS27 (25): sc-135932. Western blot analysis of GS27 expression in non-transfected: sc-117752 (A) and human GS27 transfected: sc-174708 (B) 293T whole cell lysates.

RESEARCH USE

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

PROTOCOLS

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