



# SZABO SCANDIC

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Diagnostik & molekulare Diagnostik



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- 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](mailto:mail@szabo-scandic.com)

[www.szabo-scandic.com](http://www.szabo-scandic.com)

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

# GPR56 (h): 293T Lysate: sc-158567

## BACKGROUND

G protein-coupled receptors (GPRs or GPCRs), also known as seven transmembrane receptors, heptahelical receptors or 7TM receptors, are members of the largest protein family and play a role in many different stimulus-response pathways. G protein-coupled receptors mediate extracellular signals into intracellular signals (G protein activation). They respond to a great variety of signaling molecules, including hormones, neurotransmitters and other proteins and peptides. GPR proteins are integral seven-pass membrane proteins with some conserved amino acid regions. G protein-coupled receptor 56 (GPR56), also designated TM7XN1 protein, contains one GPS domain. GPR56 plays an important role in cell-cell interactions and is widely expressed, with highest levels detected in brain, heart and thyroid gland. Defects in the gene encoding for GPR56 can cause bilateral frontoparietal polymicrogyria (BFPP) which is characterized by disorganized cortical lamination.

## REFERENCES

1. Liu, M., Parker, R.M., Darby, K., Eyre, H.J., Copeland, N.G., Crawford, J., Gilbert, D.J., Sutherland, G.R., Jenkins, N.A. and Herzog, H. 1999. GPR56, a novel secretin-like human G protein-coupled receptor gene. *Genomics* 55: 296-305.
2. Zendman, A.J., Cornelissen, I.M., Weidle, U.H., Ruiter, D.J. and van Muijen, G.N. 1999. TM7XN1, a novel human EGF-TM7-like cDNA, detected with mRNA differential display using human melanoma cell lines with different metastatic potential. *FEBS Lett.* 446: 292-298.
3. Clark, H.F., Gurney, A.L., Abaya, E., Baker, K., Baldwin, D., Brush, J., Chen, J., Chow, B., Chui, C., Crowley, C., Currell, B., et al. 2003. The secreted protein discovery initiative (SPDI), a large-scale effort to identify novel human secreted and transmembrane proteins: a bioinformatics assessment. *Genome Res.* 13: 2265-2270.
4. Piao, X., Hill, R.S., Bodell, A., Chang, B.S., Basel-Vanagaite, L., Straussberg, R., Dobyns, W.B., Qasrawi, B., Winter, R.M., Innes, A.M., Voit, T., Ross, M.E., Michaud, J.L., Déscarie, J.C., Barkovich, A.J. and Walsh, C.A. 2004. G protein-coupled receptor-dependent development of human frontal cortex. *Science* 303: 2033-2036.
5. Jansen, A. and Andermann, E. 2005. Genetics of the polymicrogyria syndromes. *J. Med. Genet.* 42: 369-378.
6. Shashidhar, S., Lorente, G., Nagavarapu, U., Nelson, A., Kuo, J., Cummins, J., Nikolich, K., Urfer, R. and Foehr, E.D. 2005. GPR56 is a GPCR that is over-expressed in gliomas and functions in tumor cell adhesion. *Oncogene* 24: 1673-1682.

## CHROMOSOMAL LOCATION

Genetic locus: GPR56 (human) mapping to 16q21.

## PRODUCT

GPR56 (h): 293T Lysate represents a lysate of human GPR56 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

GPR56 (h): 293T Lysate is suitable as a Western Blotting positive control for human reactive GPR56 antibodies. Recommended use: 10-20 µl per lane.

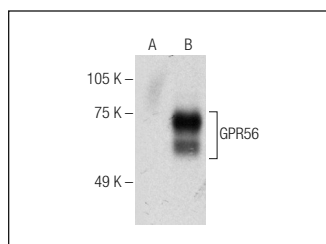
Control 293T Lysate: sc-117752 is available as a Western Blotting negative control lysate derived from non-transfected 293T cells.

GPR56 (G-6): sc-390192 is recommended as a positive control antibody for Western Blot analysis of enhanced human GPR56 expression in GPR56 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-IgGκ BP-HRP: sc-516102 or m-IgGκ BP-HRP (Cruz Marker): sc-516102-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



GPR56 (G-6): sc-390192. Western blot analysis of GPR56 expression in non-transfected: sc-117752 (A) and human GPR56 transfected: sc-158567 (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](http://www.scbt.com) for detailed protocols and support products.