

DGS8 (h): 293T Lysate: sc-117436

BACKGROUND

DGS8, also designated DiGeorge syndrome critical region 8 protein, plays a role in the etiology of the velocardiofacial/DiGeorge syndrome (VCFS/DGS). It is an ubiquitously expressed protein encoded by the gene DGCR8, which is deleted in DiGeorge syndrome. DiGeorge syndrome is characterized by structural and functional palate anomalies, conotruncal cardiac malformations, immunodeficiency, hypocalcemia and typical facial anomalies. In mouse, DGS8 is detected primarily in embryonic brain, vessels, thymus and palate.

REFERENCES

1. Shiohama, A., Sasaki, T., Noda, S., Minoshima, S. and Shimizu, N. 2003. Molecular cloning and expression analysis of a novel gene DGCR8 located in the DiGeorge syndrome chromosomal region. *Biochem. Biophys. Res. Commun.* 304: 184-190.
2. Baldini, A. 2004. DiGeorge syndrome: an update. *Curr. Opin. Cardiol.* 19: 201-204.
3. Han, J., Lee, Y., Yeom, K.H., Kim, Y.K., Jin, H. and Kim, V.N. 2004. The Drosha-DGCR8 complex in primary microRNA processing. *Genes Dev.* 18: 3016-3027.
4. Landthaler, M., Yalcin, A. and Tuschl, T. 2004. The human DiGeorge syndrome critical region gene 8 and its *D. melanogaster* homolog are required for miRNA biogenesis. *Curr. Biol.* 14: 2162-2167.
5. Goldmuntz, E. 2005. DiGeorge syndrome: new insights. *Clin. Perinatol.* 32: 963-978.
6. Gregory, R.I. and Shiekhattar, R. 2005. MicroRNA biogenesis and cancer. *Cancer Res.* 65: 3509-3512.
7. Driscoll, D.A. 2006. Molecular and genetic aspects of DiGeorge/velocardiofacial syndrome. *Methods Mol. Med.* 126: 43-55.

CHROMOSOMAL LOCATION

Genetic locus: DGCR8 (human) mapping to 22q11.21.

PRODUCT

DGS8 (h): 293T Lysate represents a lysate of human DGS8 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

DGS8 (h): 293T Lysate is suitable as a Western Blotting positive control for human reactive DGS8 antibodies. Recommended use: 10-20 µl per lane.

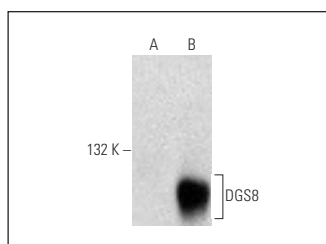
Control 293T Lysate: sc-117752 is available as a Western Blotting negative control lysate derived from non-transfected 293T cells.

DGS8 (H-6): sc-271259 is recommended as a positive control antibody for Western Blot analysis of enhanced human DGS8 expression in DGS8 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



DGS8 (H-6): sc-271259. Western blot analysis of DGS8 expression in non-transfected: sc-117752 (A) and human DGS8 transfected: sc-117436 (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.