

GSDML (h): 293T Lysate: sc-114177

BACKGROUND

GSDML (gasdermin-like), also known as GSDMB, PP4052 or PRO2521, is a member of the GSDMDC (gasdermin-domain containing) family of proteins. Members of the GSDMDC family are involved in a wide variety of cellular processes, including cell-cycle control, extracellular matrix production, differentiation and apoptosis, and have been associated with the development and progression of cancer. GSDML is a widely expressed protein found in both cancerous and non-cancerous tissues localizing to the cytoplasm and in secretory vesicles. The gene encoding GSDML is thought to have been generated by a duplication event of the GSDM1 gene, which encodes gasdermin. Various isoforms exist for GSDML.

REFERENCES

1. Katoh, M. and Katoh, M. 2004. Evolutionary recombination hotspot around GSDML-GSDM locus is closely linked to the oncogenic recombination hotspot around the PPP1R1B-ERBB2-GRB7 amplicon. *Int. J. Oncol.* 24: 757-763.
2. Katoh, M. and Katoh, M. 2004. Identification and characterization of human DFNA5L, mouse Dfna5l, and rat Dfna5l genes in silico. *Int. J. Oncol.* 25: 765-770.
3. Sin, H.S., Huh, J.W., Kim, D.S., Kang, D.W., Min, D.S., Kim, T.H., Ha, H.S., Kim, H.H., Lee, S.Y. and Kim, H.S. 2006. Transcriptional control of the HERV-H LTR element of the GSDML gene in human tissues and cancer cells. *Arch. Virol.* 151: 1985-1994.
4. Sun, Q., Zhang, L.Q. and He, F.C. 2006. Progress of researches on gene function of GSDMDC family. *Yi Chuan* 28: 596-600.
5. Nguyen, S.T., Hasegawa, S., Tsuda, H., Tomioka, H., Ushijima, M., Noda, M., Omura, K. and Miki, Y. 2007. Identification of a predictive gene expression signature of cervical lymph node metastasis in oral squamous cell carcinoma. *Cancer Sci.* 98: 740-746.
6. Tamura, M., Tanaka, S., Fujii, T., Aoki, A., Komiyama, H., Ezawa, K., Sumiyama, K., Sagai, T. and Shiroishi, T. 2007. Members of a novel gene family, GSDM, are expressed exclusively in the epithelium of the skin and gastrointestinal tract in a highly tissue-specific manner. *Genomics* 89: 618-629.
7. Online Mendelian Inheritance in Man, OMIM[™]. 2007. Johns Hopkins University, Baltimore, MD. MIM Number: 611221. World Wide Web URL: <http://www.ncbi.nlm.nih.gov/omim/>
8. Carl-McGrath, S., Schneider-Stock, R., Ebert, M. and Röcken, C. 2008. Differential expression and localisation of gasdermin-like (GSDML), a novel member of the cancer-associated GSDMDC protein family, in neoplastic and non-neoplastic gastric, hepatic, and colon tissues. *Pathology* 40: 13-24.

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.

CHROMOSOMAL LOCATION

Genetic locus: GSDMB (human) mapping to 17q12.

PRODUCT

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

APPLICATIONS

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

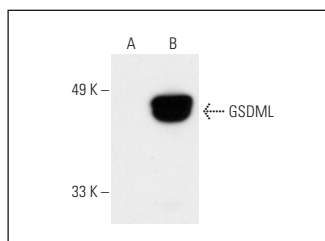
GSDML (3D8): sc-101239 is recommended as a positive control antibody for Western Blot analysis of enhanced human GSDML expression in GSDML transfected 293T cells (starting dilution 1:100, dilution range 1:100-1:1,000).

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



GSDML (3D8): sc-101239. Western blot analysis of GSDML expression in non-transfected: sc-117752 (A) and human GSDML transfected: sc-114177 (B) 293T whole cell lysates.

RESEARCH USE

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