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SANTA CRUZ BIOTECHNOLOGY, INC.

GIPC2 (m): 293T Lysate: sc-120490

BACKGROUND

The eukaryotic PDZ domain is a multifunctional protein-protein interacting motif that is found in a variety of proteins and is involved in both the clustering of signaling molecules and the organization of protein networks. GIPC2 (GIPC PDZ domain containing family, member 2), also known as SEMCAP2, is a 315 amino acid protein that localizes to the cytoplasm and contains one PDZ domain. Expressed at high levels in kidney and colon and at lower levels in adult liver, GIPC2 interacts with SEMA5A and is thought to function as a scaffold protein, possibly modulating cell adhesion and growth factor signaling and playing a role in tumorigenesis. The gene encoding GIPC2 maps to human chromosome 1p31.1, which spans 260 million base pairs, contains over 3,000 genes and comprises nearly 8% of the human genome.

REFERENCES

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3. Kirikoshi, H. and Katoh, M. 2002. Molecular cloning and characterization of human GIPC2, a novel gene homologous to human GIPC1 and *Xenopus* Kermit. Int. J. Oncol. 20: 571-576.
4. Kirikoshi, H. and Katoh, M. 2002. Expression of WNT7A in human normal tissues and cancer, and regulation of WNT7A and WNT7B in human cancer. Int. J. Oncol. 21: 895-900.
5. Kirikoshi, H. and Katoh, M. 2002. Upregulation of GIPC2 in human gastric cancer. Int. J. Oncol. 20: 1183-1187.
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7. Kuang, S.Q., Tong, W.G., Yang, H., Lin, W., Lee, M.K., Fang, Z.H., Wei, Y., Jelinek, J., Issa, J.P. and Garcia-Manero, G. 2008. Genome-wide identification of aberrantly methylated promoter associated CpG islands in acute lymphocytic leukemia. Leukemia 22: 1529-1538.

CHROMOSOMAL LOCATION

Genetic locus: Gipc2 (mouse) mapping to 3 H3.

PRODUCT

GIPC2 (m): 293T Lysate represents a lysate of mouse GIPC2 transfected 293T cells and is provided as 100 µg protein in 200 µl SDS-PAGE buffer.

APPLICATIONS

GIPC2 (m): 293T Lysate is suitable as a Western Blotting positive control for mouse reactive GIPC2 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.

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.

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.