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Diagnostik & molekulare Diagnostik



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### Zuschläge

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- Gefahrgutzuschlag
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# glypican-2 (h4): 293T Lysate: sc-176569

## BACKGROUND

Glypican-1 (GPC1), glypican-2 (GPC2) and glypican-3 (GPC3) are members of the glypican family of heparan sulfate proteoglycans, which attach to the cell membrane via a glycosylphosphatidylinositol (GPI) anchor. Cell-surface heparan sulfate proteoglycans participate in molecular events that regulate cell adhesion, migration, and proliferation. Glypican-2, a cell surface proteoglycan bearing heparan sulfate, may have a function related to the motile behaviors of developing neurons. Ligation of cell-surface glypican-2 with midkine (MK) or an antibody against epitope-tagged glypican-2 induces cell adhesion and promotes neurite outgrowth. MK binds to heparan sulfate chains of glypican-2 in a manner similar to syndecan-3, but different localization of epitope-tagged glypican-2 and syndecan-3 on the surface of N2 $\alpha$  cells suggests that they may play different roles in MK-mediated neural function.

## REFERENCES

1. Stipp, C.S., Litwack, E.D. and Lander, A.D. 1994. Cerebroglycan: an integral membrane heparan sulfate proteoglycan that is unique to the developing nervous system and expressed specifically during neuronal differentiation. *J. Cell Biol.* 124: 149-160.
2. Li, M., Choo, B., Wong, Z.M., Filmus, J. and Buick, R.N. 1997. Expression of OCI-5/glypican-3 during intestinal morphogenesis: regulation by cell shape in intestinal epithelial cells. *Exp. Cell Res.* 235: 3-12.
3. Gonzalez, A.D., Kaya, M., Shi, W., Song, H., Testa, J.R., Penn, L.Z. and Filmus, J. 1998. OCI-5/GPC3, a glypican encoded by a gene that is mutated in the Simpson-Golabi-Behmel overgrowth syndrome, induces apoptosis in a cell line-specific manner. *J. Cell Biol.* 141: 1407-1414.
4. Cano-Gauci, D.F., Song, H.H., Yang, H., McKerlie, C., Choo, B., Shi, W., Pullano, R., Piscione, T.D., Grisaru, S., Soon, S., Sedlackova, L., Tanswell, A.K., Mak, T.W., Yeager, H., Lockwood, G.A., Rosenblum, N.D. and Filmus, J. 1999. Glypican-3-deficient mice exhibit developmental overgrowth and some of the abnormalities typical of Simpson-Golabi-Behmel syndrome. *J. Cell Biol.* 146: 255-264.
5. Kurosawa, N., Chen, G.Y., Kadomatsu, K., Ikematsu, S., Sakuma, S. and Muramatsu, T. 2001. Glypican-2 binds to midkine: the role of glypican-2 in neuronal cell adhesion and neurite outgrowth. *Glycoconj. J.* 18: 499-507.

## CHROMOSOMAL LOCATION

Genetic locus: GPC2 (human) mapping to 7q22.1.

## PRODUCT

glypican-2 (h4): 293T Lysate represents a lysate of human glypican-2 transfected 293T cells and is provided as 100  $\mu$ g protein in 200  $\mu$ l SDS-PAGE buffer.

## STORAGE

Store at -20 $^{\circ}$  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.

## APPLICATIONS

glypican-2 (h4): 293T Lysate is suitable as a Western Blotting positive control for human reactive glypican-2 antibodies. Recommended use: 10-20  $\mu$ l per lane.

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

## RESEARCH USE

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