SANTA CRUZ BIOTECHNOLOGY, INC.

Dysadherin (h): 293 Lysate: sc-111349

BACKGROUND

Dysadherin (FXYD domain-containing ion transport regulator 5) is a cancer-associated cell membrane glycoprotein. Dysadherin down- regulates the expression of E-cadherin, the prime mediator of cell-cell adhesion in epithelial cells, by a posttranscriptional mechanism. Decreasing intercellular adhesiveness facilitates the metastasis of cancer cells. Dysadherin is present in spleen, lung, skeletal muscle, and testis tissue, and maps to human chromosome 19q13.12.

REFERENCES

1. Ino, Y., Gotoh, M., Sakamoto, M., Tsukagoshi, K. and Hirohashi, S. 2002. Dysadherin, a cancer-associated cell membrane glycoprotein, downregulates E-cadherin and promotes metastasis. Proc. Natl. Acad. Sci. USA 99: 365-370.
2. Shimamura, T., Sakamoto, M., Ino, Y., Sato, Y., Shimada, K., Kosuge, T., Sekihara, H. and Hirohashi, S. 2003. Dysadherin overexpression in pancreatic ductal adenocarcinoma reflects tumor aggressiveness: relationship to E-cadherin expression. J. Clin. Oncol. 21: 659-667.
3. Hirohashi, S. and Kanai, Y. 2003. Cell adhesion system and human cancer morphogenesis. Cancer Sci. 94: 575-581.
4. Sato, H., Ino, Y., Miura, A., Abe, Y., Sakai, H., Ito, K. and Hirohashi, S. 2003. Dysadherin: expression and clinical significance in thyroid carcinoma. J. Clin. Endocrinol. Metab. 88: 4407-4412.
5. Wu, D., Qiao, Y., Kristensen, G.B., Li, S., Troen, G., Holm, R., Nesland, J.M. and Suo, Z. 2004. Prognostic significance of Dysadherin expression in cervical squamous cell carcinoma. Pathol. Oncol. Res. 10: 212-218.
6. Shimamura, T., Yasuda, J., Ino, Y., Gotoh, M., Tsuchiya, A., Nakajima, A., Sakamoto, M., Kanai, Y. and Hirohashi, S. 2004. Dysadherin expression facilitates cell motility and metastatic potential of human pancreatic cancer cells. Cancer Res. 64: 6989-6995.
7. SWISS-PROT/TrEMBL (P97808). World Wide Web URL: http://www.expasy.ch/sprot/sprot-top.html

CHROMOSOMAL LOCATION

Genetic locus: FXYD5 (human) mapping to 19q13.12.

PRODUCT

Dysadherin (h): 293 Lysate represents a lysate of human Dysadherin transfected 293 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.

PROTOCOLS

See our web site at www.scbt.com for detailed protocols and support products.

APPLICATIONS

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

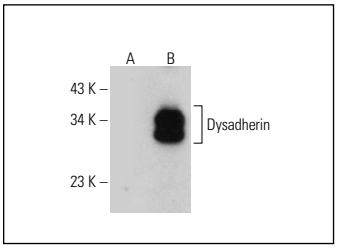
Control 293 Lysate: sc-110760 is available as a Western Blotting negative control lysate derived from non-transfected 293 cells.

Dysadherin (E-12): sc-515254 is recommended as a positive control antibody for Western Blot analysis of enhanced human Dysadherin expression in Dysadherin transfected 293 cells (starting dilution 1:100, dilution range 1:100-1:1,000).

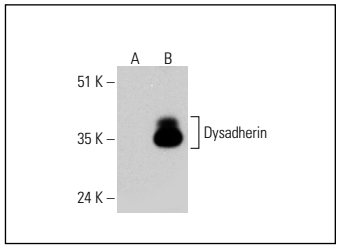
RECOMMENDED SUPPORT REAGENTS

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



Dysadherin (E-12): sc-515254. Western blot analysis of Dysadherin expression in non-transfected: sc-117752 (**A**) and human Dysadherin transfected: sc-111349 (**B**) 293T whole cell lysates.



Dysadherin (A-4): sc-515271. Western blot analysis of Dysadherin expression in non-transfected: sc-117752 (**A**) and human Dysadherin transfected: sc-111349 (**B**) 293T whole cell lysates.

RESEARCH USE

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