SANTA CRUZ BIOTECHNOLOGY, INC.

Dysadherin (T-14): sc-30604

SANTA CRUZ BIOTECHNOLOGY

The Power to Question

BACKGROUND

Dysadherin (FXYD domain-containing ion transport regulator 5) is a cancer-associated cell membrane glycoprotein. Dysadherin downregulates 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. 7: 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. 9: 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.

CHROMOSOMAL LOCATION

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

SOURCE

Dysadherin (T-14) is an affinity purified goat polyclonal antibody raised against a peptide mapping within an extracellular domain of Dysadherin of human origin.

PRODUCT

Each vial contains 200 µg IgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

Blocking peptide available for competition studies, sc-30604 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

STORAGE

Store at 4° C, **DO NOT FREEZE**. Stable for one year from the date of shipment. Non-hazardous. No MSDS required.

APPLICATIONS

Dysadherin (T-14) is recommended for detection of Dysadherin isoform 1 of human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunoprecipitation [1-2 µg per 100-500 µg of total protein (1 ml of cell lysate)], immunofluorescence (starting dilution 1:50, dilution range 1:50-1:500) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000); non cross-reactive with mouse or rat Dysadherin, or human isoform 2.

Suitable for use as control antibody for Dysadherin siRNA (h): sc-45745, Dysadherin shRNA Plasmid (h): sc-45745-SH and Dysadherin shRNA (h) Lentiviral Particles: sc-45745-V.

Molecular Weight (predicted) of Dysadherin: 19 kDa.

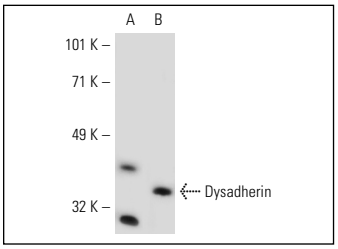
Molecular Weight (observed) of Dysadherin: 35/47 kDa.

Positive Controls: Dysadherin (h): 293 Lysate: sc-111349, Jurkat whole cell lysate: sc-2204 or JAR cell lysate: sc-2276.

RECOMMENDED SECONDARY REAGENTS

To ensure optimal results, the following support (secondary) reagents are recommended: 1) Western Blotting: use donkey anti-goat IgG-HRP: sc-2020 (dilution range: 1:2000-1:100,000) or Cruz Marker™ compatible donkey anti-goat IgG-HRP: sc-2033 (dilution range: 1:2000-1:5000), Cruz Marker™ Molecular Weight Standards: sc-2035, TBS Blotto A Blocking Reagent: sc-2333 and Western Blotting Luminol Reagent: sc-2048. 2) Immunoprecipitation: use Protein A/G PLUS-Agarose: sc-2003 (0.5 ml agarose/2.0 ml). 3) Immunofluorescence: use donkey anti-goat IgG-FITC: sc-2024 (dilution range: 1:100-1:400) or donkey anti-goat IgG-TR: sc-2783 (dilution range: 1:100-1:400) with UltraCruz™ Mounting Medium: sc-24941.

DATA



Dysadherin (T-14): sc-30604. Western blot analysis of Dysadherin expression in non-transfected: sc-110760 (**A**) and human Dysadherin transfected: sc-111349 (**B**) 293 whole cell lysates.

RESEARCH USE

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

MONOS Satisfaction Guaranteed

Try **Dysadherin (E-12): sc-515254** or **Dysadherin (G-6): sc-390412**, our highly recommended monoclonal alternatives to Dysadherin (T-14).