

Dysadherin (D-10): sc-377163

BACKGROUND

Dysadherin (FXYP 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 19q13.2.

REFERENCES

- 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.
- 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.
- Hirohashi, S. and Kanai, Y. 2003. Cell adhesion system and human cancer morphogenesis. *Cancer Sci.* 7: 575-581.
- 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.
- 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.
- 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.
- LocusLink Report (LocusID: 53827). <http://www.ncbi.nlm.nih.gov/LocusLink/>

CHROMOSOMAL LOCATION

Genetic locus: Fxyd5 (mouse) mapping to 7 B1.

SOURCE

Dysadherin (D-10) is a mouse monoclonal antibody raised against amino acids 32-178 mapping at the C-terminus of Dysadherin of mouse origin.

PRODUCT

Each vial contains 200 µg IgM kappa light chain in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

STORAGE

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

RESEARCH USE

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

APPLICATIONS

Dysadherin (D-10) is recommended for detection of Dysadherin of mouse origin by Western Blotting (starting dilution 1:100, 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).

Suitable for use as control antibody for Dysadherin siRNA (m): sc-45746, Dysadherin shRNA Plasmid (m): sc-45746-SH and Dysadherin shRNA (m) Lentiviral Particles: sc-45746-V.

Molecular Weight (predicted) of Dysadherin: 19 kDa.

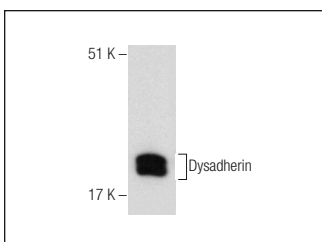
Molecular Weight (observed) of Dysadherin: 35/47 kDa.

Positive Controls: AMJ2-C8 whole cell lysate: sc-364366.

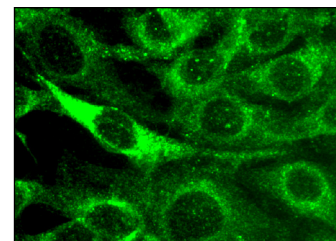
RECOMMENDED SUPPORT REAGENTS

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. 2) Immunoprecipitation: use Protein L-Agarose: sc-2336 (0.5 ml agarose/2.0 ml). 3) Immunofluorescence: use m-IgGκ BP-FITC: sc-516140 or m-IgGκ BP-PE: sc-516141 (dilution range: 1:50-1:200) with UltraCruz® Mounting Medium: sc-24941 or UltraCruz® Hard-set Mounting Medium: sc-359850.

DATA



Dysadherin (D-10): sc-377163. Western blot analysis of Dysadherin expression in AMJ2-C8 whole cell lysate.



Dysadherin (D-10): sc-377163. Immunofluorescence staining of methanol-fixed NIH/3T3 cells showing cytoplasmic localization.

SELECT PRODUCT CITATIONS

- Lubarski-Gotliv, I., Dey, K., Kuznetsov, Y., Kalchenko, V., Asher, C. and Garty, H. 2017. FXYP5 (Dysadherin) may mediate metastatic progression through regulation of the β-Na⁺-K⁺-ATPase subunit in the 4T1 mouse breast cancer model. *Am. J. Physiol. Cell Physiol.* 313: C108-C117.

PROTOCOLS

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