

p120 (h): 293 Lysate: sc-112342

BACKGROUND

The catenins, α , β and γ , are proteins which bind to the highly conserved, intracellular cytoplasmic tail of E-cadherin. Together, the catenin/cadherin complexes play an important role mediating cellular adhesion. α -catenin was initially described as an E-cadherin-associated protein and has been shown to associate with other members of the cadherin family, N-cadherin and P-cadherin. β -catenin associates with the cytoplasmic portion of E-cadherin, which is necessary for the function of E-cadherin as an adhesion molecule. β -catenin has also been found in complexes with the tumorsuppressor protein APC. γ -catenin, also known as plakoglobin, binds with α -catenin and N-cadherin. A related protein, p120, exhibits sequence homology with the catenins at four discrete domains. p120 not only serves as a substrate for Src, but is also found in E-cadherin complexes containing catenins.

REFERENCES

1. Reynolds, A.B., et al. 1992. p120, a novel substrate of protein tyrosine kinase receptors and of p60v-Src, is related to cadherin-binding factors β -catenin, plakoglobin and armadillo. *Oncogene* 7: 2439-2445.
2. Aghib, D.F. and McCrea, P.D. 1995. The E-cadherin complex contains the Src substrate p120. *Exp. Cell Res.* 218: 359-369.
3. Knudsen, K.A., et al. 1995. Interaction of α -actinin with the cadherin/catenin cell-cell adhesion complex via α -catenin. *J. Cell Biol.* 130: 67-77.
4. Breen, E., et al. 1995. Role of the E-cadherin/ α -catenin complex in modulating cell-cell and cell-matrix adhesive properties of invasive colon carcinoma cells. *Ann. Surg. Oncol.* 2: 378-385.
5. Pierceall, W.E., et al. 1995. Frequent alterations in E-cadherin and α - and β -catenin expression in human breast cancer cell lines. *Oncogene* 11: 1319-1326.
6. Ozawa, M., et al. 1995. Cloning of an alternative form of plakoglobin (γ -catenin) lacking the fourth armadillo repeat. *J. Biochem.* 118: 836-840.
7. Sacco, P.A., et al. 1995. Identification of plakoglobin domains required for association with N-cadherin and α -catenin. *J. Biol. Chem.* 270: 20201-20206.
8. Takayama, T., et al. 1996. β -catenin expression in human cancers. *Am. J. Pathol.* 148: 39-46.

CHROMOSOMAL LOCATION

Genetic locus: CTNND1 (human) mapping to 11q12.1.

PRODUCT

p120 (h): 293 Lysate represents a lysate of human p120 transfected 293 cells and is provided as 100 μ g protein in 200 μ l 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.

APPLICATIONS

p120 (h): 293 Lysate is suitable as a Western Blotting positive control for human reactive p120 antibodies. Recommended use: 10-20 μ l per lane.

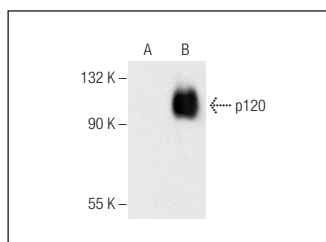
Control 293 Lysate: sc-110760 is available as a Western Blotting negative control lysate derived from non-transfected 293 cells.

p120 (A-8): sc-390327 is recommended as a positive control antibody for Western Blot analysis of enhanced human p120 expression in p120 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-IgG κ BP-HRP: sc-516102 or m-IgG κ 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



p120 (A-8): sc-390327. Western blot analysis of p120 expression in non-transfected: sc-110760 (A) and human p120 transfected: sc-112342 (B) 293 whole cell lysates.

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.