

p120 (H-90): sc-13957



The Power to Question

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 tumor suppressor protein APC. γ -catenin, also known as plakoglobin, is a protein that 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.

CHROMOSOMAL LOCATION

Genetic locus: CTNND1 (human) mapping to 11q12.1; Ctnnd1 (mouse) mapping to 2 D.

SOURCE

p120 (H-90) is a rabbit polyclonal antibody raised against amino acids 41-130 mapping near the N-terminus of p120 of human origin.

PRODUCT

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

APPLICATIONS

p120 (H-90) is recommended for detection of p120 of mouse, rat and human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunoprecipitation [1-2 μ g per 100-500 μ g of total protein (1 ml of cell lysate)], immunofluorescence (starting dilution 1:50, dilution range 1:50-1:500), immunohistochemistry (including paraffin-embedded sections) (starting dilution 1:50, dilution range 1:50-1:500) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

p120 (H-90) is also recommended for detection of p120 in additional species, including canine, bovine and porcine.

Suitable for use as control antibody for p120 siRNA (h): sc-36139, p120 siRNA (m): sc-36140, p120 siRNA (r): sc-106992, p120 shRNA Plasmid (h): sc-36139-SH, p120 shRNA Plasmid (m): sc-36140-SH, p120 shRNA Plasmid (r): sc-106992-SH, p120 shRNA (h) Lentiviral Particles: sc-36139-V, p120 shRNA (m) Lentiviral Particles: sc-36140-V and p120 shRNA (r) Lentiviral Particles: sc-106992-V.

Molecular Weight of p120 isoforms: 100-120 kDa.

Positive Controls: NIH/3T3 whole cell lysate: sc-2210, HeLa whole cell lysate: sc-2200 or p120 (m): 293T Lysate: sc-127278.

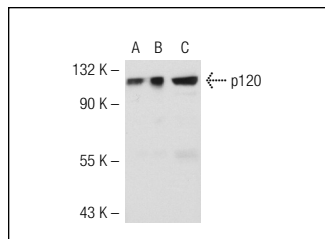
RESEARCH USE

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

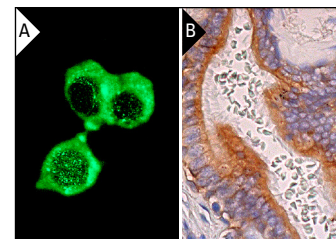
STORAGE

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

DATA



p120 (H-90): sc-13957. Western blot analysis of p120 expression in non-transfected 293T: sc-117752 (A), mouse p120 transfected 293T: sc-127278 (B) and HeLa (C) whole cell lysates.



p120 (H-90): sc-13957. Immunofluorescence staining of methanol-fixed NIH/3T3 cells showing cytoplasmic localization (A). Immunoperoxidase staining of formalin fixed, paraffin-embedded human bronchus tissue showing cytoplasmic staining of respiratory epithelial cells (B).

SELECT PRODUCT CITATIONS

- Xie, Z., et al. 2007. The recruitment of phosphatidylinositol 3-kinase to the E-cadherin-catenin complex at the plasma membrane is required for calcium-induced phospholipase C- γ 1 activation and human keratinocyte differentiation. *J. Biol. Chem.* 282: 8695-8703.
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- Fürst, R., et al. 2008. Atrial natriuretic peptide protects against histamine-induced endothelial barrier dysfunction *in vivo*. *Mol. Pharmacol.* 74: 1-8.
- Zhai, B., et al. 2008. Reduced expression of p120 catenin in cholangiocarcinoma correlated with tumor clinicopathologic parameters. *World J. Gastroenterol.* 14: 3739-3744.
- Caspi, E. and Rosin-Arbesfeld, R. 2008. A novel functional screen in human cells identifies MOCA as a negative regulator of Wnt signaling. *Mol. Biol. Cell* 19: 4660-4674.
- Cook, B.D., et al. 2008. TGF- β 1 induces rearrangement of FLK-1-VE-cadherin- β -catenin complex at the adherens junction through VEGF-mediated signaling. *J. Cell. Biochem.* 105: 1367-1373.
- Tsang, S.M., et al. 2010. Desmoglein 3, via an interaction with E-cadherin, is associated with activation of Src. *PLoS ONE* 5: e14211.
- Hsiao, C.C., et al. 2011. GPS autoproteolysis is required for CD97 to up-regulate the expression of N-cadherin that promotes homotypic cell-cell aggregation. *FEBS Lett.* 585: 313-318.



Try **p120 (6H11): sc-23873** or **p120 (G-7): sc-373751**, our highly recommended monoclonal alternatives to p120 (H-90). Also, for AC, HRP, FITC, PE, Alexa Fluor® 488 and Alexa Fluor® 647 conjugates, see **p120 (6H11): sc-23873**.