SANTA CRUZ BIOTECHNOLOGY, INC.

p-p120 (pY228.15A): sc-293012



BACKGROUND

The catenins, α , β and γ , are proteins which bind to the highly conserved, intra-cellular cytoplasmic tail of E-cadherin. Together, the catenin/cadherin complexes play an important role mediating cellular adhesion. A related protein, p120 [catenin (cadherin associated protein), δ 1], also known as cadherin-associated Src substrate, Ctnnd1, Catns or Ctnnd, is a 968 amino acid tyrosine kinase substrate belonging to the β -catenin family. Expressed in vascular endothelium, p120 localizes to the cytoplasm, nucleus and cell membrane. p120 plays a role in ligand-induced receptor signaling through EGF, PDGF, CSF-1 and Neu receptors, and exhibits sequence homology with the catenins at four discreet domains. p120 serves as a substrate for Src and is found in E-cadherin complexes containing catenins. p120 has four major isoforms, each of which has additional isoforms due to alternative splicing events. p120 contains ten ARM repeats and is phosphorylated following translation.

REFERENCES

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CHROMOSOMAL LOCATION

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

SOURCE

p-p120 (pY228.15A) is a mouse monoclonal antibody raised against a short amino acid sequence containing Tyr 228 phosphorylated p120 of human origin.

PRODUCT

Each vial contains 200 $\mu g\, lgG_1$ kappa light chain in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

APPLICATIONS

p-p120 (pY228.15A) is recommended for detection of Tyr 228 phosphorylated p120 of mouse, rat and human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000) and immunoprecipitation [1-2 µg per 100-500 µg of total protein (1 ml of cell lysate)].

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

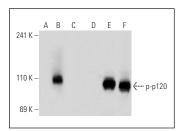
Molecular Weight of p-p120: 100-120 kDa.

Positive Controls: A-431 + Calyculin A cell lysate: sc-2260, p120 (h): 293 Lysate: sc-112342 or ECV304 + pervanadate cell lysate: sc-24672.

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, TBS Blotto B Blocking Reagent: sc-2335 (use 50 mM NaF, sc-24988, as diluent), Lambda Phosphatase: sc-200312A and Western Blotting Luminol Reagent: sc-2048. 2) Immunoprecipitation: use Protein A/G PLUS-Agarose: sc-2003 (0.5 ml agarose/2.0 ml).

DATA



Western blot analysis of p120 phosphorylation in nontransfected: sc-110760 (**A**,**D**), untreated human p120 transfected: sc-112342 (**B**,**E**) and lambda protein phosphatase (sc-200312A) treated human p120 transfected: sc-112342 (**C**,**F**) 293 whole cell lysates. Antibodies tested include p-p120 (pY228.15A): sc-293012 (**A**,**B**,**C**) and p120 (M-19): sc-1730 (**D**,**E**,**F**).

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.