# SANTA CRUZ BIOTECHNOLOGY, INC.

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



#### BACKGROUND

The catenins,  $\alpha$ ,  $\beta$  and  $\gamma$ , 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),  $\delta$  1], also known as cadherin-associated Src substrate, Ctnnd1, Catns or Ctnnd, is a 968 amino acid tyrosine kinase substrate belonging to the  $\beta$ -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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- Keirsebilck, A., et al. 1998. Molecular cloning of the human p120ctn catenin gene (CTNND1): expression of multiple alternatively spliced isoforms. Genomics 50: 129-146.
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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.

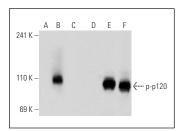
Molecular Weight of p-p120: 100-120 kDa.

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<sup>™</sup> 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.