

# Datasheet



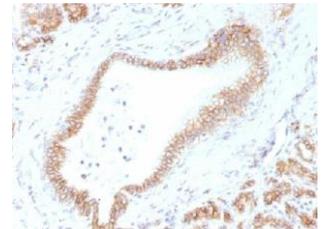
Mouse mAb to **Catenin p120, delta-1 (TNND1; pTyr96)**  
Clone **EBS-CA-011**  
Isotype **IgG1-κ**

## Source

A BALB/c mouse was immunized with Mouse p120 Catenin (pY96).  
Fusion partner: SP2/0.

## Specifications

The membrane associated protein pp120 Src substrate (p120 catenin, p120cas) was identified as a tyrosine kinase substrate that is phosphorylated in Src transformed cells or in response to growth factor stimulation. It shares structural similarity with the Drosophila Armadillo protein and the vertebrate beta-catenin and gamma-catenin proteins. Its characteristic Arm domain that is composed of 42-amino acid motif repeats evidences this similarity. In the cell, p120 Catenin is localized to the E-Cadherin/catenins cell adhesion complex. Like beta- and gamma-catenin, p120 Catenin directly associates with the cytoplasmic C-terminus of E-Cadherin via its arm domain and may similarly interact with other Cadherins. It exists as four isoforms that range in size from 90-115 kDa. Expression of these isoforms is heterogeneous in human carcinomas, suggesting that altered pp120 expression contributes to malignancy due to loss of functional cell adhesions. Multiple tyrosine residues (Y96, Y112, Y228, Y280, Y257, Y291, Y296, and Y302) in p120 Catenin are phosphorylated by Src and these phosphorylations may facilitate interaction with PTP1C/SHP-1 in response to EGF stimulation. Thus, p120 Catenin is an Arm domain protein that interacts with both cell adhesion molecules, such as cadherins and cell signalling molecules, such as PTP1C.



**Figure 1:** Human pancreas stained for catenin p120

## Species reactivity

Positive: human, mouse, rat.

## Applications

Identify p120 catenin.

Frozen sections	Paraffin sections	Western blot
+	-	+

## Format

Produced in tissue culture, contains no host Ig. Antibodies are affinity purified and presented in PBS with 0,02% sodium azide.

Stored at 4°C-8°C, shelf life is at least 24 months after purchase.

## Dilution advice

- Immunoblotting (1-2 µg/ml).
- Immunohistology (1-2 µg/ml for 30 min at RT; an appropriate antigen retrieval method for staining of formalin-fixed tissues has not been established to date).

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## Positive control

Carcinoma.

## References

- Reynolds, AB, et al. *Mol Cell Biol.* **14(12)**: 8333-42 (1994).
- Mariner, DJ, et al.: *J Biol Chem.***276(30)**:28006-13 (2001) .