

Technical Data Sheet

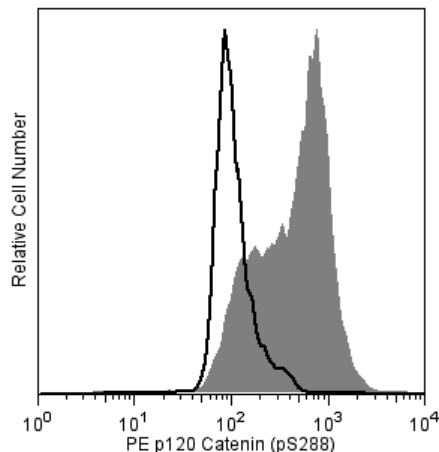
PE Mouse anti-p120 Catenin (pS288)**Product Information**

Material Number:	558567
Size:	50 tests
Vol. per Test:	20 µl
Clone:	17/catenin
Immunogen:	Phosphorylated Human P120 Catenin Peptide
Isotype:	Mouse IgG2a
Reactivity:	Confirmed by flow cytometry: Human Confirmed by western blot using purified antibody (Cat. No. 558396): Human Reported by western blot using purified antibody (Cat. No. 558396): dog, African green monkey, mouse
Storage Buffer:	Aqueous buffered solution containing BSA and ≤0.09% sodium azide.

Description

The membrane associated protein pp120 Src substrate (p120 catenin, p120cas) was identified as a tyrosine kinase substrate that is phosphorylated in Src-transformed cells. It shares structural similarity with the Drosophila Armadillo protein and the vertebrate β-catenin and γ-catenin proteins in its 42-amino acid Arm domain. p120 catenin is localized to the E-Cadherin/catenin cell adhesion complex. Like β- and γ-catenin, p120 catenin directly associates with the cytoplasmic C-terminus of E-Cadherin via its Arm domain. It exists as four isoforms that range in size from 90 to 115 kDa. Expression of these isoforms is heterogeneous in human carcinomas, suggesting that altered expression contributes to malignancy. Phosphorylation of multiple serine (S252, S268, S288, and S879), and threonine (T310 and T916) residues in p120 catenin may regulate its activity. The S879 residue is phosphorylated after PKC activation, while the S268 site is dephosphorylated after PKC activation. The latter residue is phosphorylated in vitro by p160 Rock. S252 and T310 residues are phosphorylated in vitro by GSK3b. Thus, p120 catenin function may be regulated in a complex manner through both serine and threonine phosphorylation.

The 17/catenin monoclonal antibody recognizes the phosphorylated S288 in the regulatory domain of p120 catenin.



Analysis of p120 Catenin (pS288) in human epithelioid carcinoma. After serum starvation overnight, HeLa S3 cells (ATCC CCL 2.2) were either stimulated with 50 nM calyculin A (shaded histogram) for 30 minutes at 37 °C or unstimulated (open histogram). The cells were fixed (BD Cytotfix™ Fixation buffer, Cat. No. 554655) for 10 minutes at 37 °C, then permeabilized (BD Phosflow™ Perm Buffer III, Cat. No. 558050) on ice for at least 30 minutes, and then stained with PE Mouse anti-p120 Catenin (pS288). Flow cytometry was performed on a BD FACSCalibur™ flow cytometry system.

Preparation and Storage

Store undiluted at 4°C and protected from prolonged exposure to light. Do not freeze.

The monoclonal antibody was purified from tissue culture supernatant or ascites by affinity chromatography.

The antibody was conjugated with R-PE under optimum conditions, and unconjugated antibody and free PE were removed.

Application Notes**Application**

Intracellular staining (flow cytometry)	Routinely Tested
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Suggested Companion Products

<u>Catalog Number</u>	<u>Name</u>	<u>Size</u>	<u>Clone</u>
558050	Perm Buffer III	125 ml	(none)
554655	Fixation Buffer	100 ml	(none)

Product Notices

1. This reagent has been pre-diluted for use at the recommended Volume per Test. We typically use 1×10^6 cells in a 100- μ l experimental sample (a test).
2. Please refer to www.bdbiosciences.com/pharming/protocols for technical protocols.
3. For fluorochrome spectra and suitable instrument settings, please refer to our Multicolor Flow Cytometry web page at www.bdbiosciences.com/colors.
4. Caution: Sodium azide yields highly toxic hydrazoic acid under acidic conditions. Dilute azide compounds in running water before discarding to avoid accumulation of potentially explosive deposits in plumbing.
5. Source of all serum proteins is from USDA inspected abattoirs located in the United States.

References

Reynolds AB, Roczniak-Ferguson A. Emerging roles for p120-catenin in cell adhesion and cancer. *Oncogene*. 2004; 23:7947-7956. (Biology)
Xia X, Brooks J, Campos-Gonzalez R, Reynolds AB. Serine and threonine phospho-specific antibodies to p120-catenin. *Hybrid Hybridomics*. 2004; 23:343-351. (Immunogen)

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