

Technical Data Sheet

Purified Mouse Anti-p120 Catenin (pS288)**Product Information**

Material Number:	558396
Size:	0.1 mg
Concentration:	0.25 mg/ml
Clone:	17/catenin
Immunogen:	Phosphorylated Human P120 Catenin Peptide
Isotype:	Mouse IgG2a
Reactivity:	QC Testing: Human Reported: Dog, Monkey, Mouse
Target MW:	120 kDa
Storage Buffer:	Aqueous buffered solution containing BSA, glycerol, 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.



Western blot analysis of p120 catenin (pS288) in human epidermis. Lysates from human A-431 epidermoid carcinoma (Cat. no. 611447) were probed with purified mouse anti-p120 catenin (pS288) monoclonal antibody at a concentration of 0.008 μ g/ml with (left panel) or without (right panel) lambda protein phosphatase (LP) treatment. p120 catenin (pS288) is identified as a band of 120 kDa in the untreated lysate.

Preparation and Storage

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

Store undiluted at 4°C.

Application Notes**Application**

Western blot	Routinely Tested
Immunoprecipitation	Reported
Fluorescence microscopy	Reported

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Suggested Companion Products

<u>Catalog Number</u>	<u>Name</u>	<u>Size</u>	<u>Clone</u>
554002	HRP Goat Anti-Mouse Ig	1.0 ml	(none)
611447	A431 Cell Lysate	500 µg	(none)

Product Notices

1. Since applications vary, each investigator should titrate the reagent to obtain optimal results.
2. Please refer to www.bdbiosciences.com/pharmingen/protocols for technical protocols.
3. 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.
4. 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: Fluorescence microscopy, Immunoprecipitation, Western blot)