

Technical Data Sheet

Purified Mouse Anti-p120 Catenin**Product Information**

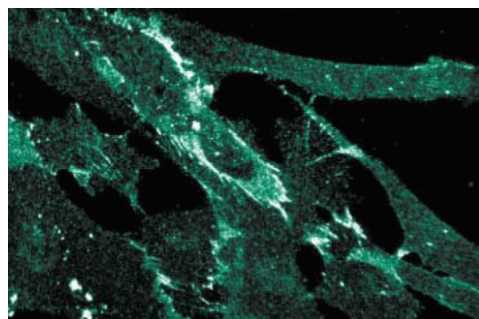
Material Number:	610134
Alternate Name:	pp120 (Src Substrate); p120cas
Size:	150 µg
Concentration:	250 µg/ml
Clone:	98/pp120
Immunogen:	Mouse pp120 aa. 326-632
Isotype:	Mouse IgG1
Reactivity:	QC Testing: Human Tested in Development: Mouse, Rat, Chicken, Dog
Target MW:	120 kDa
Storage Buffer:	Aqueous buffered solution containing BSA, glycerol, and ≤0.09% sodium azide.

Description

The membrane associated protein p120 Catenin (pp120 (Src substrate); 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 β-catenin and γ-catenin proteins. This similarity is evidenced by its characteristic Arm domain that is composed of 42-amino acid motif repeats. In the cell, p120 Catenin is localized to the E-Cadherin/catenins cell adhesion complex. Like β- and γ-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 signaling molecules, such as PTP1C.



Western blot analysis of p120 Catenin on a A431 cell lysate (Human epithelial carcinoma; ATCC CRL-1555).
Lane 1: 1:1000, lane 2: 1:2000, lane 3: 1:4000 dilution of the mouse anti-p120 Catenin antibody.



Immunofluorescence staining of human fibroblasts.

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Preparation and Storage

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

Store undiluted at -20° C.

Application Notes

Application

Western blot	Routinely Tested
Immunofluorescence	Tested During Development
Immunohistochemistry	Tested During Development
Immunoprecipitation	Tested During Development

Recommended Assay Procedure:

Western blot: Please refer to http://www.bdbiosciences.com/pharminingen/protocols/Western_Blotting.shtml

Suggested Companion Products

Catalog Number	Name	Size	Clone
611447	A431 Cell Lysate	500 µg	(none)
554002	HRP Goat Anti-Mouse Ig	1.0 ml	(none)
554001	FITC Goat Anti-Mouse Ig	0.5 mg	Polyclonal

Product Notices

1. Since applications vary, each investigator should titrate the reagent to obtain optimal results.
2. Please refer to www.bdbiosciences.com/pharminingen/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

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