

## Technical Data Sheet

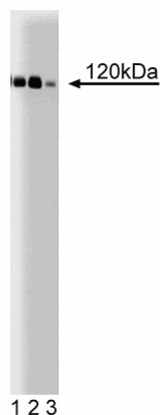
## Purified Mouse Anti-P-Cadherin

## Product Information

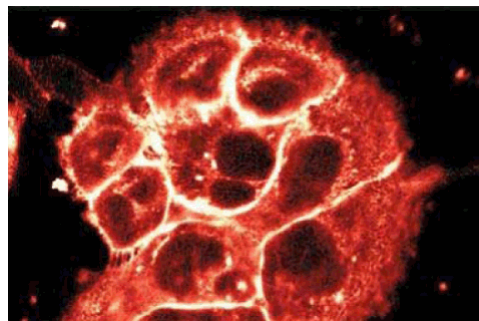
Material Number:	610227
Size:	50 µg
Concentration:	250 µg/ml
Clone:	56/P-Cadherin
Immunogen:	Human P-Cadherin aa. 72-259
Isotype:	Mouse IgG1
Reactivity:	QC Testing: Human Tested in Development: Rat
Target MW:	120 kDa
Storage Buffer:	Aqueous buffered solution containing BSA, glycerol, and ≤0.09% sodium azide.

## Description

Cadherins are a family of transmembrane glycoproteins involved in the Ca<sup>2+</sup>-dependent cell-cell adhesion that occurs in many tissues. Cadherins are similar in their domain structure, Ca<sup>2+</sup> and protease sensitivity, and molecular weight. However, these proteins have distinct tissue expression patterns and immunological reactivities. P-Cadherin is localized in placenta while E-Cadherin and N-Cadherin are found in epithelial and neural tissues, respectively. P-Cadherin is an 829 amino acid polypeptide with a putative signal peptide and precursor region, an extracellular domain containing several internal repeats, and a highly hydrophobic transmembrane region. The cytoplasmic domain provides a link to the cytoskeleton through the associated catenin proteins.



**Western blot analysis of P-Cadherin on A431 cell lysate.** Lane 1: 1:250, lane 2: 1:500, lane 3: 1:1000 dilution of anti-P-Cadherin antibody.



**Immunofluorescent staining of A431 cells.**

## 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
Immunoprecipitation	Tested During Development
Immunofluorescence	Tested During Development
Immunohistochemistry	Tested During Development

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**Recommended Assay Procedure:**

Western blot: Please refer to [http://www.bdbiosciences.com/pharmingen/protocols/Western\\_Blotting.shtml](http://www.bdbiosciences.com/pharmingen/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/pharmingen/protocols](http://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**

Bailey T, Biddlestone L, Shepherd N, Barr H, Warner P, Jankowski J. Altered cadherin and catenin complexes in the Barrett's esophagus-dysplasia-adenocarcinoma sequence: correlation with disease progression and dedifferentiation. *Am J Pathol.* 1998; 152(1):135-144.(Clone-specific: Immunohistochemistry)

Holsinger LJ, Ward K, Duffield B, Zachwieja J, Jallal B. The transmembrane receptor protein tyrosine phosphatase DEP1 interacts with p120(ctn). *Oncogene.* 2002; 21(46):7067-7076.(Clone-specific: Western blot)

Kantak SS, Kramer RH. E-cadherin regulates anchorage-independent growth and survival in oral squamous cell carcinoma cells. *J Biol Chem.* 1998; 273(27):16953-16961.(Clone-specific: Western blot)

Nose A, Nagafuchi A, Takeichi M. Isolation of placental cadherin cDNA: identification of a novel gene family of cell-cell adhesion molecules. *EMBO J.* 1987; 6(12):3655-3661.(Biology)

Tao YS, Edwards RA, Tubb B, Wang S, Bryan J, McCrea PD. beta-Catenin associates with the actin-bundling protein fascin in a noncadherin complex. *J Cell Biol.* 1996; 134(5):1271-1281.(Clone-specific: Immunofluorescence)