

# Human/Mouse P-Cadherin PE-conjugated Antibody

Monoclonal Rat IgG<sub>2A</sub> Clone # 106020

Catalog Number: FAB761P

100 Tests

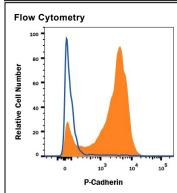
DESCRIPTION			
Species Reactivity	y Human/Mouse		
Specificity	Detects mouse P-Cadherin in direct ELISAs and Western blots. In direct ELISAs and Western blots, no cross-reactivity with recombinant human (rh) N-Cadherin, recombinant mouse (rm) VE-Cadherin, rhCadherin-8, or rhCadherin-17 is observed.		
Source	Monoclonal Rat IgG <sub>2A</sub> Clone # 106020		
Purification	Protein A or G purified from hybridoma culture supernatant		
Immunogen	Mouse myeloma cell line NS0-derived recombinant mouse P-Cadherin Glu100-Gly647 Accession # P10287		
Conjugate	Phycoerythrin Excitation Wavelength: 488 nm Emission Wavelength: 565-605 nm		
Formulation	Supplied in a saline solution containing BSA and Sodium Azide. See Certificate of Analysis for details.		
	*Contains <0.1% Sodium Azide, which is not hazardous at this concentration according to GHS classifications. Refer to the Safety Data Shee (SDS) for additional information and handling instructions.		

#### **APPLICATIONS**

Please Note: Optimal dilutions should be determined by each laboratory for each application. General Protocols are available in the Technical Information section on our website.

	Recommended Concentration	Sample
Flow Cytometry	10 μL/10 <sup>6</sup> cells	See Below

## DATA



Detection of P-Cadherin in A431 Human Cell Line by Flow Cytometry. A431 human epithelial carcinoma cell line was stained with Rat Anti-Human/Mouse P-Cadherin PE-conjugated Monoclonal Antibody (Catalog # FAB761P, filled histogram) or isotype control antibody (Catalog # IC006P, open histogram). Cells were stained in a buffer containing Ca<sup>2+</sup> and Mg<sup>2+</sup>. View our protocol for Staining Membrane-associated Proteins.

## PREPARATION AND STORAGE

Shipping The product is shipped with polar packs. Upon receipt, store it immediately at the temperature recommended below

Stability & Storage

Protect from light. Do not freeze

• 12 months from date of receipt, 2 to 8 °C as supplied.

### BACKGROUND

Placental Cadherin (P-Cadherin), also known as PCAD and Cadherin-3, is a 120 kDa member of the cadherin family of cell adhesion molecules, designated CDH3. Cadherins are calcium-dependent transmembrane proteins, which bind to one another in a homophilic manner. On their cytoplasmic side, they associate with the three catenins,  $\alpha$ ,  $\beta$ , and  $\gamma$  (plakoglobin). This association links the cadherin protein to the cytoskeleton. Without association with the catenins, the cadherins are non-adhesive. Cadherins play a role in development, specifically in tissue formation. They may also help to maintain tissue architecture in the adult. P-Cadherin is a classical cadherin molecule. Classical cadherins consist of a large extracellular domain which contains DXD and DXNDN repeats responsible for mediating calcium-dependent adhesion, a single-pass transmembrane domain, and a short carboxy-terminal cytoplasmic domain responsible for interacting with the catenins. Constitutive P-Cadherin expression is found in the epidermis, mesothelium, corneal epithelium, and uterine decidua. Mouse P-Cadherin is an 822 amino acid (aa) protein with a 27 aa signal sequence and a 795 aa propeptide. The mature protein begins at aa 100 and has a 542 aa extracellular region, a 27 aa transmembrane region, and a 153 aa cytoplasmic region. Over aa 100-647, mouse P-Cadherin shares 94% and 85% aa sequence identity with rat and human P-Cadherin, respectively.

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