### RD SYSTEMS a biotechne brand

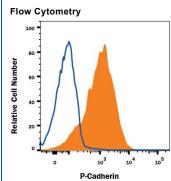
# Human/Mouse P-Cadherin Antibody

Monoclonal Rat IgG<sub>2A</sub> Clone # 106020 Catalog Number: MAB761

DESCRIPTION		
Species Reactivity	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 # Q8BSL6	
Formulation	Lyophilized from a 0.2 μm filtered solution in PBS with Trehalose. See Certificate of Analysis for details. *Small pack size (-SP) is supplied either lyophilized or as a 0.2 μm filtered solution in PBS.	

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.				
Western Blot	1 µg/mL	Recombinant Mouse P-Cadherin Fc Chimera (Catalog # 761-MP)		
Flow Cytometry	0.25 μg/10 <sup>6</sup> cells	See Below		
CyTOF-ready	Ready to be labeled using established conjugation methods. No BSA or other carrier proteins that could interfere with conjugation.			

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 Monoclonal Antibody (Catalog # MAB761, filled histogram) or isotype control antibody (Catalog # Catalog # MAB006, open histogram), followed by Allophycocyaninconjugated Anti-Rat IgG Secondary Antibody (Catalog # Catalog # F0113). Cells were stained in a buffer containing Ca<sup>2+</sup> and Mg<sup>2+</sup>. View our protocol for Staining Membraneassociated Proteins.

PREPARATION AND S	TORAGE	
Reconstitution	Reconstitute at 0.5 mg/mL in sterile PBS.	
Shipping	The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below. *Small pack size (-SP) is shipped with polar packs. Upon receipt, store it immediately at -20 to -70 °C	
Stability & Storage	<ul> <li>Use a manual defrost freezer and avoid repeated freeze-thaw cycles.</li> <li>12 months from date of receipt, -20 to -70 °C as supplied.</li> <li>1 month, 2 to 8 °C under sterile conditions after reconstitution.</li> <li>6 months, -20 to -70 °C under sterile conditions after reconstitution.</li> </ul>	

#### Rev. 7/8/2021 Page 1 of 2



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#### BACKGROUND

Placental Cadherin (P-Cadherin or PCAD) is a 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 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 as signal sequence and a 795 as 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.

#### References:

- 1. Bussemakers, M.J.G. et al. (1993) Mol. Biol. Reports 17:123.
- 2. Overduin, M. et al. (1995) Science 267:386.
- 3. Takeichi, M. (1991) Science 251:1451.
- 4. Nose, A. *et al.* (1987) EMBO J. **6**:3655.

Rev. 7/8/2021 Page 2 of 2



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