

# P-Cadherin (N-terminal region)

Mouse Monoclonal IgG1

Cat. # CM5961

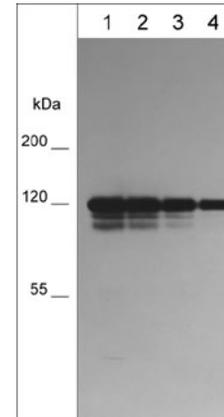
Size 100 µl

## Background

Cadherins are transmembrane glycoproteins vital in calcium-dependent cell-cell adhesion during tissue differentiation. Cadherins cluster to form foci of homophilic binding units. A key determinant to the strength of the cadherin-mediated adhesion may be by the juxtamembrane region in cadherins. This region induces clustering and also binds to the protein p120 catenin. The cytoplasmic region is highly conserved in sequence and has been shown experimentally to regulate the cell-cell binding function of the extracellular domain of E-cadherin, possibly through interaction with the cytoskeleton. Many cadherins are regulated by phosphorylation, including N-cadherin and E-cadherin. P-Cadherin (Cadherin-3) is localized in placenta while E-Cadherin (Cadherin-1) and N-Cadherin (Cadherin-2) are found in epithelial and neural tissues, respectively. P-Cadherin is expressed in normal epithelial cells and some cancer cells, and its sequence contains 5 cadherin domains in the extracellular region.

## Background References

Qi, J. et al. (2006) Mol. Biol. Cell 17(3):1261.



Western blot image of human A431 cells (lanes 1-4). The blots were probed with mouse monoclonals anti-P-Cadherin at 1:250 (lane 1) and 1:500 (lane 2), 1:1000 (lane 3) and 1:2000 (lane 4).

## Applications

WB	1:1000
ELISA	1:1000
ICC	1:100

## Species Reactivity

Hu, Rt, Ms

## Specificity

Clone M596 was purified using Protein A chromatography. The P-cadherin antibody detects a 120 kDa\* protein corresponding to endogenous P-Cadherin expressed in human A431 cells.

\*All molecular weights (MW) are confirmed by comparison to Bio-Rad Rainbow Markers and to western blot mobilities of known proteins with similar MW.

End user should determine optimal dilution for their particular applications and experiments.  
Western blot membranes were incubated with diluted antibody in 5% non-fat milk, PBS, 0.04% Tween20 for 1 hour at room temperature.

## Immunogen

Clone (M596) was generated from a recombinant protein containing amino acids in the N-terminal region of human P-Cadherin. This sequence is highly conserved in mouse and rat P-cadherin.

## Buffer and Storage

Mouse monoclonal, protein A purified antibody is supplied in 100µl phosphate-buffered saline, 50% glycerol, 1 mg/ml BSA, and 0.05% sodium azide. Store at -20°C. Stable for 1 year.

## Related Products

CM5331	E-Cadherin (C-terminal fragment) Mouse Monoclonal
CK6260	E-Cadherin Phospho-Regulation Antibody Sampler Kit
CK6310	N-Cadherin Phospho-Regulation Antibody Sampler Kit
CP2231	VE-Cadherin (a.a.770-781) Rabbit Polyclonal
CP1981	VE-Cadherin (Tyr-685), phospho-specific Rabbit Polyclonal

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Rev 3/19/2018