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Anti-P-Cadherin (N-terminal region) Antibody

Catalog # AN1664

Product Information

Application	WB, ICC
Primary Accession	P22223
Host	Mouse
Clonality	Mouse Monoclonal
Isotype	IgG1
Clone Names	M596
Calculated MW	91418

Additional Information

Gene ID	1001
Other Names	CDH3, Cadherin 3, CDHP, Placental Cadherin, P-Cadherin
Target/Specificity	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.
Dilution	WB~~1:1000 ICC~~N/A
Format	Protein A Purified
Storage	Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.
Precautions	Anti-P-Cadherin (N-terminal region) Antibody is for research use only and not for use in diagnostic or therapeutic procedures.
Shipping	Blue Ice

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.