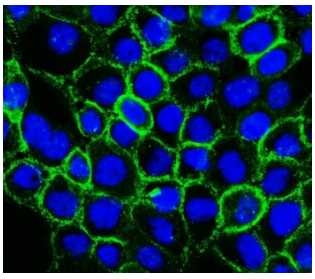
P-Cadherin Antibody / Epithelial Cell Adhesion Antibody (RQ6762)

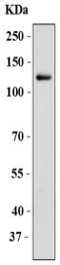
Catalog No.	Formulation	Size
RQ6762	0.5mg/ml if reconstituted with 0.2ml sterile DI water	100 ug

Bulk quote request

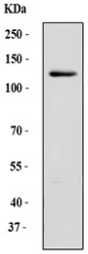
Availability	1-3 business days
Species Reactivity	Human
Format	Antigen affinity purified
Host	Rabbit
Clonality	Polyclonal (rabbit origin)
Isotype	Rabbit IgG
Purity	Antigen affinity purified
Buffer	Lyophilized from 1X PBS with 2% Trehalose
UniProt	P22223
Localization	Cell surface, cytoplasmic
Applications	Western blot: 1-2ug/ml Immunofluorescence (FFPE): 5ug/ml Flow cytometry: 1-3ug/million cells Direct ELISA: 0.1-0.5ug/ml
Limitations	This P-Cadherin Antibody / Epithelial Cell Adhesion Antibody is available for research use only.



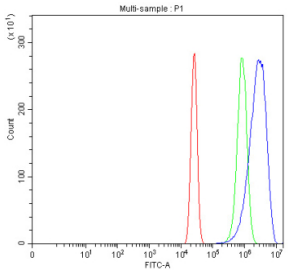
P-Cadherin Antibody A431 Cell IF. Immunofluorescence analysis of FFPE human A431 cells using P-Cadherin Antibody / Epithelial Cell Adhesion Antibody. Heat induced antigen retrieval was performed by steaming sections in pH 6 citrate buffer for 20 minutes. P-Cadherin expression is shown in green with DAPI nuclear counterstain shown in blue. Strong membrane-associated staining is observed at cell-cell junctions, supporting the use of P-Cadherin Antibody / Epithelial Cell Adhesion Antibody for studying epithelial adhesion proteins, adherens junction formation and cell communication pathways.



P-Cadherin Antibody A431 Cell WB. Western blot analysis of human A431 cell lysate using P-Cadherin Antibody / Epithelial Cell Adhesion Antibody. A specific band is detected between approximately 100â€“130 kDa, consistent with the expected migration range of glycosylated P-Cadherin. The unmodified protein has a predicted molecular weight of approximately 91 kDa. This result supports the use of P-Cadherin Antibody / Epithelial Cell Adhesion Antibody for analyzing epithelial adhesion protein expression and cadherin family signaling pathways in human cancer cell models.



P-Cadherin Antibody Human A431 Cell WB. Western blot analysis of human A431 cell lysate using P-Cadherin Antibody / Epithelial Cell Adhesion Antibody. A specific band is observed between approximately 100â€“130 kDa, consistent with the expected molecular weight range of glycosylated P-Cadherin. The unmodified CDH3 protein has a predicted molecular weight of approximately 91 kDa. These results support the use of P-Cadherin Antibody / Epithelial Cell Adhesion Antibody for studying epithelial cell adhesion proteins, cadherin expression and cell junction regulation.



P-Cadherin Antibody A431 Cell FACS. Flow cytometry analysis of fixed and permeabilized human A431 cells using P-Cadherin Antibody / Epithelial Cell Adhesion Antibody. Cells were blocked with goat serum and incubated with the primary antibody at 1 ug/million cells. The blue histogram represents P-Cadherin staining, while green represents isotype control and red represents unstained cells. Clear positive signal separation supports the use of P-Cadherin Antibody / Epithelial Cell Adhesion Antibody for analyzing epithelial adhesion protein expression and cadherin-mediated cell communication pathways by flow cytometry.

Description

P-Cadherin Antibody / Epithelial Cell Adhesion Antibody detects a calcium-dependent adhesion molecule encoded by the CDH3 gene. P-Cadherin, also known as Cadherin 3 or placental cadherin, is a member of the classical cadherin family of transmembrane proteins that regulate cell-cell adhesion and tissue organization. Like other cadherins, P-Cadherin contains extracellular cadherin repeats that mediate calcium-dependent interactions between neighboring cells and an intracellular domain that connects with catenin-associated signaling networks. Through these functions, P-Cadherin contributes to epithelial integrity, cell communication and maintenance of normal tissue architecture.

P-Cadherin expression is found in select epithelial tissues, including basal cell populations where it participates in cellular organization and differentiation. The protein plays an important role in adherens junction formation by linking extracellular adhesive interactions with intracellular cytoskeletal regulation. Changes in P-Cadherin expression can influence cell migration, proliferation and interactions between epithelial cells and their surrounding environment. A P-Cadherin Antibody / Epithelial Cell Adhesion Antibody is commonly used to investigate cadherin-mediated adhesion pathways, epithelial biology and mechanisms controlling tissue structure.

Research has identified P-Cadherin as an important marker in cancer biology due to altered CDH3 expression in several tumor types. Increased P-Cadherin levels have been reported in breast, ovarian, pancreatic and other cancers, where changes in adhesion signaling may contribute to tumor progression, invasion and cellular plasticity. Because cadherin proteins influence both physical cell attachment and intracellular signaling pathways, analysis of P-Cadherin expression provides insight into tumor phenotype, epithelial remodeling and cancer-associated changes in cell behavior.

P-Cadherin is also studied in developmental biology and epithelial stem cell research due to its association with basal epithelial compartments and specialized cell populations. Mutations affecting CDH3 have been linked to inherited disorders involving hair and retinal development, demonstrating the importance of normal P-Cadherin function in tissue maintenance. Its roles in adhesion, differentiation and cellular organization make P-Cadherin an important target for

studies involving epithelial homeostasis and disease-related changes in tissue structure.

NSJ Bioreagents offers P-Cadherin Antibody / Epithelial Cell Adhesion Antibody products for researchers studying cadherin family proteins, epithelial markers and cell adhesion pathways. These antibodies support applications such as Western blot, immunohistochemistry, immunofluorescence and flow cytometry analysis of P-Cadherin expression and localization. P-Cadherin Antibody / Epithelial Cell Adhesion Antibody provides a valuable tool for investigating epithelial cell adhesion mechanisms, tumor biology and regulation of cell-cell communication.

Explore additional regulators of cell structure and communication in our Cell Biology Antibodies page, including targets involved in epithelial cell adhesion, junction formation and intracellular signaling pathways.

Application Notes

Optimal dilution of the P-Cadherin Antibody / Epithelial Cell Adhesion Antibody should be determined by the researcher.

Immunogen

Recombinant human protein (amino acids Q236-E645) was used as the immunogen for the P-Cadherin antibody.

Storage

After reconstitution, the P-Cadherin antibody can be stored for up to one month at 4oC. For long-term, aliquot and store at -20oC. Avoid repeated freezing and thawing.

Alternate Names

CDH3 antibody, Cadherin 3 antibody, Placental Cadherin antibody, P Cadherin antibody, CDHP antibody, HJMD antibody, Cadherin Family Member 3 antibody

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