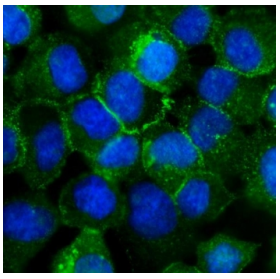
CDH3 Antibody / Cadherin 3 Antibody (RQ4549)

Catalog No.	Formulation	Size
RQ4549	0.5mg/ml if reconstituted with 0.2ml sterile DI water	100 ug

Bulk quote request

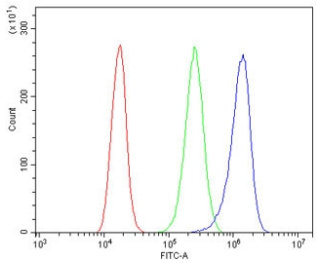
Availability	1-3 business days
Species Reactivity	Human
Format	Antigen affinity purified
Host	Rabbit
Clonality	Polyclonal (rabbit origin)
Isotype	Rabbit IgG
Purity	Antigen affinity purified
Buffer	Lyophilized from 1X PBS with 2% Trehalose
UniProt	P22223
Localization	Cell surface, Cytoplasmic
Applications	Western blot: 0.5-1ug/ml Immunofluorescence (FFPE): 2-5ug/ml Flow cytometry: 1-3ug/million cells Direct ELISA: 0.1-0.5ug/ml (recombinant human protein)
Limitations	This CDH3 Antibody / Cadherin 3 Antibody is available for research use only.



CDH3 Antibody A431 Cell IF. Immunofluorescence analysis of FFPE human A431 cells using CDH3 Antibody / Cadherin 3 Antibody. Heat induced antigen retrieval was performed by steaming sections in pH 6 citrate buffer for 20 minutes. CDH3 expression is shown in green with DAPI nuclear counterstain shown in blue. Strong membrane-associated staining is observed at epithelial cell junctions, supporting the use of CDH3 Antibody / Cadherin 3 Antibody for studying Cadherin 3 protein expression, epithelial adhesion mechanisms and cell-cell communication pathways.



CDH3 Antibody Human Epithelial Cell WB. Western blot analysis of human A431 and HaCaT cell lysates using CDH3 Antibody / Cadherin 3 Antibody. Lane 1: human A431 cells; Lane 2: human HaCaT cells. Specific bands are detected between approximately 100â€“130 kDa, consistent with the expected migration range of glycosylated Cadherin 3. The unmodified CDH3 protein has a predicted molecular weight of approximately 91 kDa. These results support the use of CDH3 Antibody / Cadherin 3 Antibody for studying Cadherin 3 expression, epithelial cell adhesion and cell junction regulation.



CDH3 Antibody A431 Cell FACS. Flow cytometry analysis of human A431 cells using CDH3 Antibody / Cadherin 3 Antibody. Cells were blocked with goat serum and incubated with the primary antibody at 1 ug/million cells. The blue histogram represents CDH3 antibody staining, while green represents isotype control and red represents unstained cells. Clear positive signal separation supports the use of CDH3 Antibody / Cadherin 3 Antibody for analyzing Cadherin 3 protein expression, epithelial cell adhesion markers and cell surface receptor expression by flow cytometry.

Description

CDH3 Antibody / Cadherin 3 Antibody detects the classical cadherin family member encoded by the CDH3 gene. Cadherin 3, commonly known as P-Cadherin or placental cadherin, is a calcium-dependent transmembrane adhesion protein that contributes to cell-cell interactions and epithelial tissue organization. CDH3 contains extracellular cadherin repeat domains that mediate adhesive interactions with neighboring cells and a cytoplasmic region involved in connections with intracellular signaling and structural proteins. These properties allow Cadherin 3 to participate in the regulation of epithelial integrity, tissue architecture and cellular communication.

CDH3 expression is found in specific epithelial compartments and has been studied as a marker of basal epithelial cell populations. Through its role in adherens junction biology, Cadherin 3 helps coordinate interactions between cells and contributes to processes involving differentiation, migration and maintenance of organized tissue structures. A CDH3 Antibody / Cadherin 3 Antibody is useful for researchers studying epithelial markers, cadherin family proteins and pathways controlling cell adhesion dynamics.

CDH3 has significant relevance in cancer research because altered Cadherin 3 expression has been observed in multiple tumor types. Increased expression has been reported in studies involving breast cancer, ovarian cancer, pancreatic cancer and other malignancies, where changes in adhesion molecule regulation may influence tumor progression, invasion and cellular behavior. Analysis of CDH3 expression provides insight into epithelial remodeling, tumor phenotype and mechanisms connecting adhesion pathways with cancer-associated signaling changes.

In addition to oncology studies, Cadherin 3 is investigated in developmental biology and tissue maintenance research. Genetic alterations affecting CDH3 have been associated with disorders involving hair and retinal development, demonstrating the importance of regulated cadherin activity in specialized tissues. The study of CDH3 function continues to provide information about epithelial organization, cell junction regulation and the molecular mechanisms that maintain normal tissue structure.

NSJ Bioreagents offers CDH3 Antibody / Cadherin 3 Antibody products for researchers examining epithelial adhesion molecules, cancer markers and cadherin signaling pathways. These antibodies support applications including Western blot, immunohistochemistry, immunofluorescence and flow cytometry analysis of CDH3 protein expression and localization. CDH3 Antibody / Cadherin 3 Antibody provides a valuable tool for studying P-Cadherin biology, cell-cell adhesion and regulation of epithelial cell function.

Researchers studying CDH3 expression and cadherin family signaling may also be interested in our P-Cadherin Antibody / Epithelial Cell Adhesion Antibody page, which highlights epithelial junction regulation, cell-cell adhesion and tissue

organization pathways.

Application Notes

Optimal dilution of the CDH3 antibody should be determined by the researcher.

Immunogen

Amino acids Q126-H336 from the human protein were used as the immunogen for the CDH3 antibody.

Storage

After reconstitution, the CDH3 Antibody / Cadherin 3 Antibody can be stored for up to one month at 4oC. For long-term, aliquot and store at -20oC. Avoid repeated freezing and thawing.

Copyright © NSJ Bioreagents. All rights reserved.