abcam

ab190076

Anti-P cadherin antibody - N-terminal

Key facts

Isotype	IgG
Host species	Rabbit
Storage buffer	pH: 7.4 Preservative: 0.09% Sodium azide Constituents: PBS
Form	Liquid
Clonality	Polyclonal
Immunogen	Synthetic Peptide within Human CDH3 conjugated to Keyhole Limpet Haemocyanin. The exact immunogen used to generate this antibody is proprietary information. Database link P22223
Purification technique	Affinity purification Immunogen
Concentration	0.25 mg/mL The concentration of this product may be batch-dependent Batch concentration finder →

Reactivity data

WB

Tested

Species	Mouse
Dilution info	1/1000
Notes	-

Expected

Species	Human

Dilution info	Use at an assay dependent concentration.
Notes	-

IHC-P

Tested

Species	Human
Dilution info	10 µg/mL
Notes	-

Expected

Species	Mouse
Dilution info	Use at an assay dependent concentration.
Notes	-

Flow Cyt (Intra)

Tested

Species	Human
Dilution info	-
Notes	ab171870 - Rabbit polyclonal IgG, is suitable for use as an isotype control with this antibody.

Expected

Species	Mouse
Dilution info	Use at an assay dependent concentration.
Notes	-

Target data

See full target information CDH3

Function	Cadherins are calcium-dependent cell adhesion proteins. They preferentially interact with themselves in a homophilic manner in connecting cells; cadherins

may thus contribute to the sorting of heterogeneous cell types.

Storage

Shipped at conditions	Blue Ice
Appropriate short-term storage duration	1-2 weeks
Appropriate short-term storage conditions	+4°C
Appropriate long-term storage conditions	-20°C
Aliquoting information	Upon delivery aliquot
Storage information	Avoid freeze / thaw cycle

Supplementary info

This supplementary information is collated from multiple sources and compiled automatically.

Activity summary	P cadherin also known as cadherin-3 or CDH3 is a calcium-dependent cell-cell adhesion glycoprotein. Scientists often refer to it as P-cadherin and it belongs to the cadherin protein family which includes other members like E-cadherin and N-cadherin. The molecular mass of P cadherin is approximately 120 kDa. It is mainly expressed in epithelial tissues including the basal side of scalp and mammary glands acting as an important mediator in maintaining tissue integrity.
Biological function summary	P cadherin plays an important role in facilitating cell adhesion and establishing proper tissue architecture. It often forms part of a larger complex by interacting with catenins including beta-catenin which helps link the cadherin itself to the actin cytoskeleton. Through these interactions P cadherin influences processes such as cell sorting boundary formation and cell polarization essential for embryonic development and tissue homeostasis.
Pathways	Cell adhesion and signal transduction are influenced by P cadherin through its involvement in the Wnt signaling pathway and cadherin-catenin complex. Within the Wnt pathway P cadherin interacts with other key proteins such as beta-catenin which transduces signals leading to gene expression changes. This interaction is important for controlling cellular processes including cell proliferation and differentiation.

Associated diseases and disorders	P cadherin associates with various cancer types particularly breast and prostate cancers. Altered expression or dysfunction of P cadherin correlates with tumor progression and metastasis. Its interaction with E-cadherin may also contribute to the development and progression of skin disease hypotrichosis with juvenile macular dystrophy. Understanding the role of P cadherin within these contexts offers potential for developing targeted therapies and diagnostic tools.

Product promise

Tested

We have tested this species and application combination and it works. It is covered by our product promise.

Expected

We have not tested this specific species and application combination in-house, but expect it will work. It is covered by our product promise.

Predicted

This species and application combination has not been tested, but we predict it will work based on strong homology. However, this combination is not covered by our product promise.

Not recommended

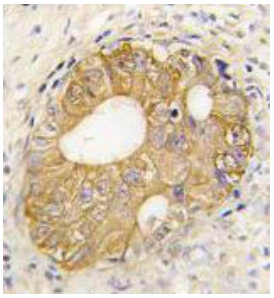
We do not recommend this combination. It is not covered by our product promise.

We are dedicated to supporting your work with high quality reagents and we are here for you every step of the way should you need us.

In the unlikely event of one of our products not working as expected, you are covered by our product promise.

Full details and terms and conditions can be found here:
Terms & Conditions.

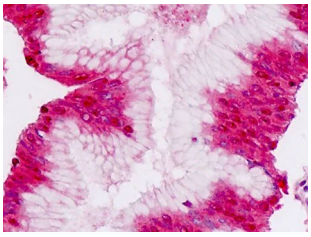
4 product images



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-P cadherin antibody - N-terminal (ab190076)

P cadherin Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) staining using rabbit Anti-P cadherin antibody

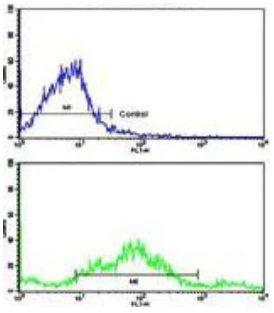
Immunohistochemical analysis of formalin-fixed, paraffin-embedded Human prostate carcinoma tissue labeling P cadherin with ab190076 at 10 µg/ml, followed by peroxidase-conjugated secondary antibody and DAB staining.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-P cadherin antibody - N-terminal (ab190076)

P cadherin Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) staining using rabbit Anti-P cadherin antibody

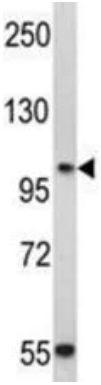
Immunohistochemical analysis of formalin-fixed, paraffin-embedded Human pancreatic duct tissue labeling P cadherin with ab190076 at 10 µg/ml.



Flow Cytometry (Intracellular) - Anti-P cadherin antibody - N-terminal (ab190076)

P cadherin Flow Cytometry (Intracellular) staining using rabbit Anti-P cadherin antibody

Intracellular flow cytometric analysis of NCI-H292 cells labeling P Cadherin with ab190076 at 1/10 dilution (bottom histogram) compared to negative control cells (top histogram). FITC-conjugated goat-anti-rabbit secondary antibodies were used for the analysis.



Western blot - Anti-P cadherin antibody - N-terminal (ab190076)

All lanes:
Western blot - Anti-P cadherin antibody - N-terminal (ab190076) at 1/1000 dilution

All lanes:
NIH 3T3 cell lysate at 35 µg

Predicted band size: 91 kDa

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.