abcam

ab189965

Anti-Cadherin 7 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 CDH7 conjugated to Keyhole Limpet Haemocyanin. The exact immunogen used to generate this antibody is proprietary information. Database link Q9ULB5
Purification technique	Affinity purification Immunogen
Concentration	0.4 - 0.5 mg/mL The concentration of this product may be batch-dependent Batch concentration finder →

Reactivity data

WB

Tested

Species	Human
Dilution info	1/1000
Notes	-

IHC-P

Tested

Species	Human
Dilution info	10 µg/mL
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.

Target data

See full target information CDH7

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	Cadherin 7 also known as CDH7 is a member of the classical cadherin family involved in calcium-dependent cell-cell adhesion. The mass of Cadherin 7 is approximately 88 kDa. It is mostly expressed in the nervous system where it plays a role in the formation and maintenance of cellular structures essential for neural function. The protein comprises extracellular cadherin repeats a transmembrane domain and a highly conserved cytoplasmic tail which allows it to facilitate homophilic interactions between cells.
Biological function summary	This protein mediates strong stable adhesion among cells in the neural tissue. It is integral to the assembly of adherens junctions where it participates in cell signaling and structural integrity. Cadherin 7 does not function alone; it often forms complexes with cytoplasmic proteins such as catenins which link the cadherin to the actin cytoskeleton providing mechanical support and facilitating intracellular signaling.
Pathways	Cadherin 7 plays a critical role in pathways like the cadherin-catenin complex and the Wnt signaling pathway. The cadherin-catenin complex pathway modulates cell polarity and gene expression by interacting with proteins like β-catenin. In the Wnt signaling pathway Cadherin 7 helps regulate cell fate proliferation and migration which are all vital for neural development and tissue homeostasis.
Associated diseases and disorders	Cadherin 7 has implications in neurological conditions such as schizophrenia and autism spectrum disorders. Disruptions in its function may affect neural cell adhesion and signaling leading to these conditions. Additionally altered expression of Cadherin 7 in association with changes in other proteins like N-cadherin has been observed in cancer metastasis highlighting its importance in cell adhesion and signaling in both neural and cancer contexts.

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

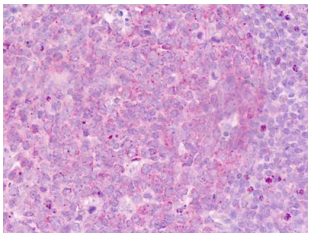
We do not recommend this combination. It is not covered by our product promise.

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.

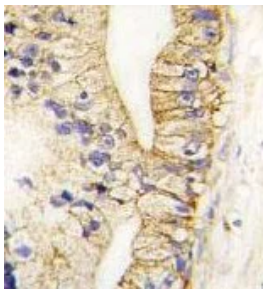
4 product images



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Cadherin 7 antibody - N-terminal (ab189965)

Cadherin 7 Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) staining using rabbit Anti-Cadherin 7 antibody

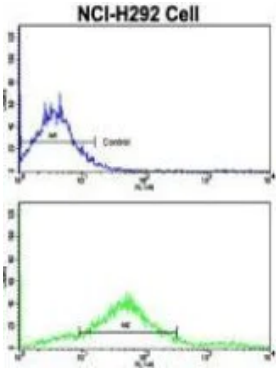
Immunohistochemistry of formalin-fixed, paraffin-embedded Human tonsil tissue labeling Cadherin 7 with ab189965 at 10 µg/ml.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Cadherin 7 antibody - N-terminal (ab189965)

Cadherin 7 Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) staining using rabbit Anti-Cadherin 7 antibody

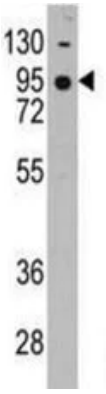
Immunohistochemistry of formalin-fixed, paraffin-embedded Human prostata carcinoma tissue labeling Cadherin 7 with ab189965 at 10 µg/ml.



Flow Cytometry (Intracellular) - Anti-Cadherin 7 antibody - N-terminal (ab189965)

Cadherin 7 Flow Cytometry (Intracellular) staining using rabbit Anti-Cadherin 7 antibody

Intracellular Flow Cytometry ofanalysis NCI-H292 cells using ab189965 at a 1/10 dilution (bottom histogram) compared to a negative control cell (top histogram). FITC-conjugated goat-anti-rabbit secondary antibodies were used for the analysis.



Western blot - Anti-Cadherin 7 antibody - N-terminal (ab189965)

All lanes:
Western blot - Anti-Cadherin 7 antibody - N-terminal (ab189965) at 1/60 dilution

All lanes:
K562 cell lysate

Predicted band size: 87 kDa

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