

N-Cadherin Antibody

Catalog No: #48495



Package Size: #48495-1 50ul #48495-2 100ul

Orders: order@signalwayantibody.com
Support: tech@signalwayantibody.com

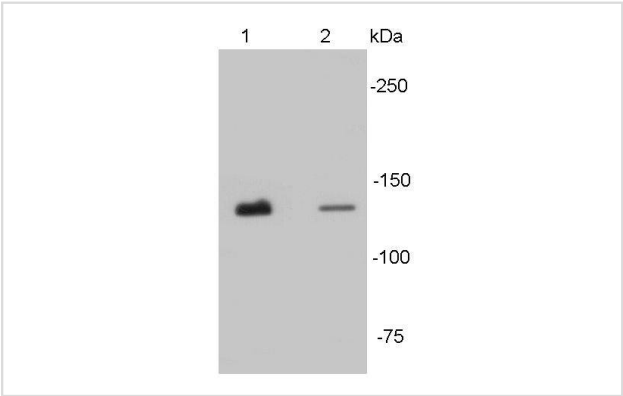
Description

Product Name	N-Cadherin Antibody
Host Species	Rabbit
Clonality	Polyclonal
Purification	Peptide affinity purified
Applications	WB, ICC, IHC, FC
Species Reactivity	Human;Mouse
Immunogen Description	Synthetic peptide (KLH-coupled) within human N-cadherin 360-420 aa.
Conjugates	Unconjugated
Other Names	CADH2_HUMAN antibody Cadherin 2 antibody Cadherin 2 N cadherin neuronal antibody Cadherin 2 type 1 antibody Cadherin 2 type 1 N cadherin neuronal antibody Cadherin 2, type 1, N-cadherin (neuronal) antibody Cadherin-2 antibody Cadherin2 antibody Calcium dependent adhesion protein neuronal antibody CD325 antibody CD325 antigen antibody CDH2 antibody CDHN antibody CDw325 antibody CDw325 antigen antibody N cadherin 1 antibody N-cadherin antibody NCAD antibody Neural cadherin antibody OTTHUMP00000066304 antibody OTTHUMP00000067378 antibody
Accession No.	Swiss-Prot#:P19022
Calculated MW	140 kDa
Formulation	1*TBS (pH7.4), 1%BSA, 40%Glycerol. Preservative: 0.05% Sodium Azide.
Storage	Store at -20°C

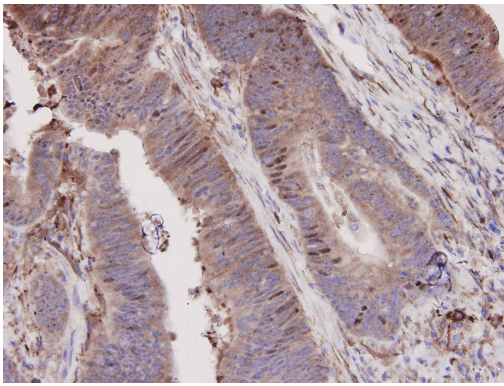
Application Details

WB: 1:500 IHC: 1:200 ICC: 1:200 FC: 1:50

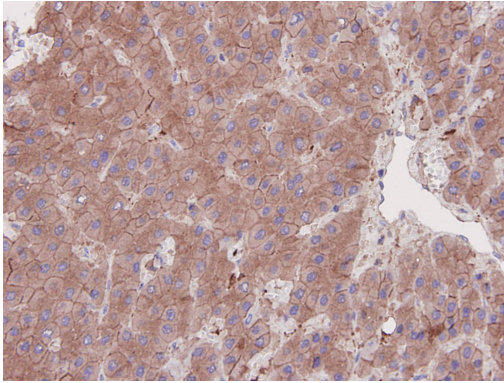
Images



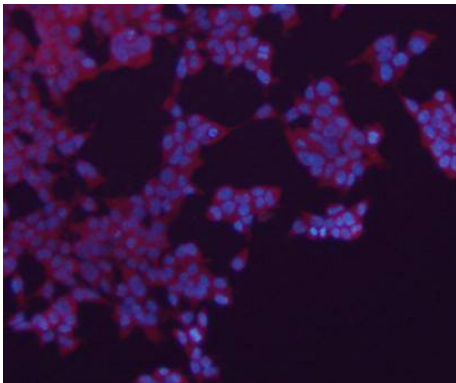
Western blot analysis of N-cadherin on different tissue lysates using anti- N-cadherin antibody at 1/500 dilution. Positive control:
Lane 1: Mouse heart
Lane2 : Human heart



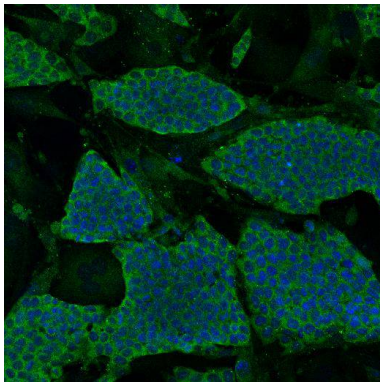
Immunohistochemical analysis of paraffin-embedded human colon carcinoma tissue using anti-N-Cadherin antibody. Counter stained with hematoxylin.



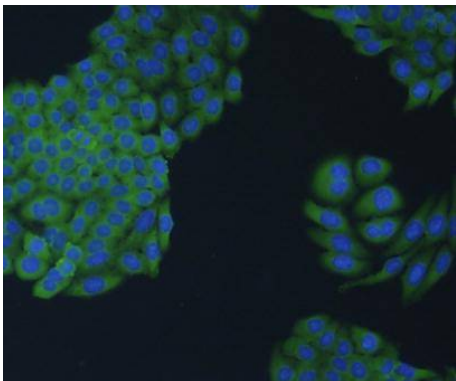
Immunohistochemical analysis of paraffin-embedded human liver carcinoma tissue using anti-N-Cadherin antibody. Counter stained with hematoxylin.



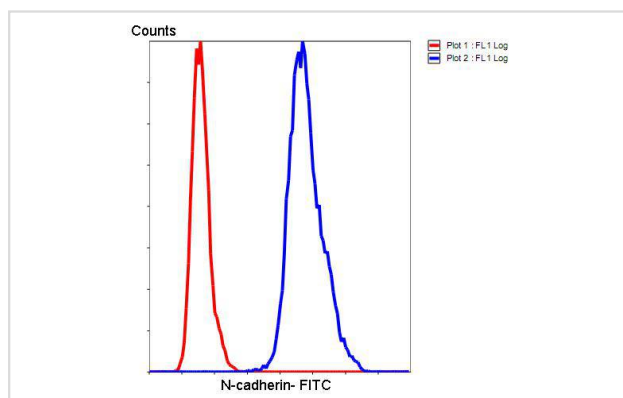
ICC staining N-Cadherin in 293 cells (red). The nuclear counter stain is DAPI (blue). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS.



ICC staining N-Cadherin in mouse embryonic stem cells (green). The nuclear counter stain is DAPI (blue). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS.



ICC staining N-Cadherin in HepG2 cells (green). The nuclear counter stain is DAPI (blue). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS.



Background

The cadherins are a large family of cell adhesion molecules involved in calcium-dependent recognition and adhesion events. The cadherin subfamily includes N-, P-, B-, and E- cadherins, and other members. Recent studies indicate that cancer cells have up-regulated N-cadherin in addition to loss of E-cadherin. N-cadherin cooperates with the FGF receptor, leading to overexpression of MMP-9 and cellular invasion. N-Cadherin is commonly found in cancer cells and provides a mechanism for transendothelial migration. When a cancer cell adheres to the endothelial cells of a blood vessel it up-regulates the src kinase pathway, which phosphorylates beta-catenins attached to both N-cadherin (this protein) and E-cadherins.

References

1. Liu J et al. Loss of DLG5 promotes breast cancer malignancy by inhibiting the Hippo signaling pathway. *Sci Rep* 7:42125-42125 (2017).
2. Chen R et al. Glycoproteomics analysis of human liver tissue by combination of multiple enzyme digestion and hydrazide chemistry. *J Proteome Res* 8:651-661 (2009).

Published Papers

el at., Neferine, a novel ROCK1-targeting inhibitor, blocks EMT process and induces apoptosis in non-small cell lung cancer. In *J Cancer Res Clin Oncol* on 2022 Aug 19

by Po Hu, Peng Wan, et al..PMID:35984492, , (2022)

[PMID:35984492](#)

el at., Single-cell sequencing reveals PTX3 involvement in ovarian cancer metastasis. In *J Ovarian Res* on 2024 Nov 23

by Shuangyan Liu, Tianhao Wu,et al..PMID:39580424, , (2024)

[PMID:39580424](#)

Note: This product is for in vitro research use only and is not intended for use in humans or animals.