Nur für Forschungszwecke

E-cadherin Polyklonaler Antikörper

Katalog-Nr.:20874-1-AP Vorgestelltes Produkt 1442 Publikationen

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Antibodies | ELISA kits | Proteins
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Allgemeine Informationen

Katalog-Nr.:
20874-1-AP

Größe:
150ul , Konzentration: 700 μg/ml von Nanodrop;

Wirt:
Kaninchen

Isotyp:
IgG

Immunogen Katalognummer:
AG14973

GenBank-Zugangsnummer:
BC141838

GeneID (NCBI):
999

Vollständiger Name:
cadherin 1, type 1, E-cadherin (epithelial)

Berechneté Masse:
882 aa, 97 kDa

Beobachteté Masse:
120-125 kDa

Reinigungsmethode:
Antigen-Affinitätsreinigung

Empfohlene Verdünnungen:
WB 1:20000-1:100000
IP 0.5-4.0 ug für IP und 1:500-1:2000 für WB
IHC 1:2000-1:8000
IF 1:200-1:800

Anwendungen

Geprüfte Anwendungen:
FC, IF, IHC, IP, WB, ELISA

In Publikationen genannte Anwendungen:
CoIP, FC, IF, IHC, WB

Getestete Reaktivität:
Human, Maus, Ratte

Zitierte Arten:
Hausschwein, Human, Hund, Maus, Ratte, Rind, Zebrafisch

Hinweis-IHC: Antigendemaskierung mit TE-Puffer pH 9,0 empfohlen. (*) Wahlweise kann die Antigendemaskierung auch mit Citratpuffer pH 6,0 erfolgen.

Positivkontrollen:

WB : A431-Zellen, DU 145-Zellen, HCT 116-Zellen, Maushodengewebe, MCF-7-Zellen, T-47D-Zellen

IP : A431-Zellen,

IHC : humanes Mammakarzinomgewebe, humanes Kolongewebe, humanes Prostatakarzinomgewebe, Maushautgewebe, Maus-Kolongewebe

IF : MCF-7-Zellen, A431-Zellen, humanes Mammakarzinomgewebe, Maus-Dünndarmgewebe, Mausembryogewebe

Hintergrundinformationen

Cadherins are a family of transmembrane glycoproteins that mediate calcium-dependent cell-cell adhesion and play an important role in the maintenance of normal tissue architecture. E-cadherin (epithelial cadherin), also known as CDH1 (cadherin 1) or CAM 120/80, is a classical member of the cadherin superfamily which also include N-, P-, R-, and B-cadherins. It has been regarded as a marker for spermatogonial stem cells in mice(PMID:23509752). E-cadherin is expressed on the cell surface in most epithelial tissues. The extracellular region of E-cadherin establishes calcium-dependent homophilic trans binding, providing specific interaction with adjacent cells, while the cytoplasmic domain is connected to the actin cytoskeleton through the interaction with p120-, α-, β-, and γ-catenin (plakoglobin). E-cadherin is important in the maintenance of the epithelial integrity, and is involved in mechanisms regulating proliferation, differentiation, and survival of epithelial cell. E-cadherin may also play a role in tumorigenesis. It is considered to be an invasion suppressor protein and its loss is an indicator of high tumor aggressiveness. E-cadherin is sensitive to trypsin digestion in the absence of Ca2+. This polyclonal antibody recognizes 120-125 kDa intact E-cadherin and its cleaved fragments of 80-120 kDa.

Bemerkenswerte Veröffentlichungen

Verfasser	Pubmed ID	Journal	Anwendung
Ji Xing	36230734	Cancers (Basel)	WB
Xia Peng	36247281	Am J Transl Res	WB
Yang Liu	36249783	Front Pharmacol	IF

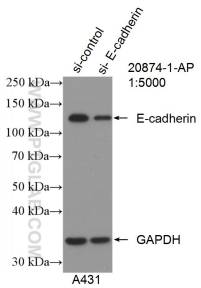
Lagerung

Lagerungsbedingungen:
Bei -20°C lagern. Nach dem Versand ein Jahr lang stabil
Lagerungspuffer:
PBS mit 0.02% Natriumazid und 50% Glycerin pH 7.3.
Aliquotieren ist nicht notwendig bei -20°C lagerung

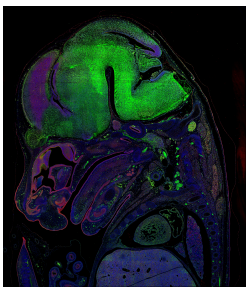
***** 20ul-Größen enthalten 0.1% BSA**

For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
E: proteintech@ptglab.com
W: ptglab.com

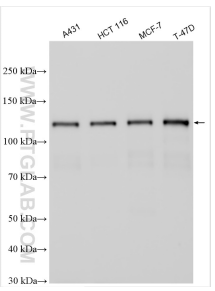
Ausgewählte Validierungsdaten



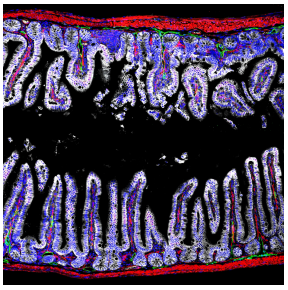
WB result of E-cadherin antibody (20874-1-AP; 1:5000; incubated at room temperature for 1.5 hours) with sh-Control and sh-E-cadherin transfected A431 cells.



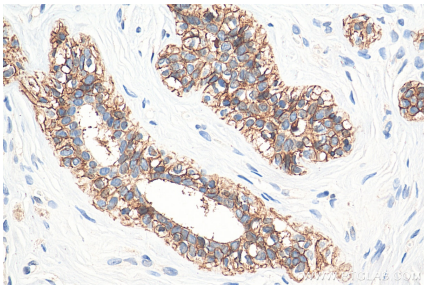
E14.5 FFPE mouse embryo section stained for E-cadherin (red, Cat. No 20874-1-AP) and alpha tubulin (green, Cat. CL488-66031). Image credit: @Immunofluorescence on Instagram



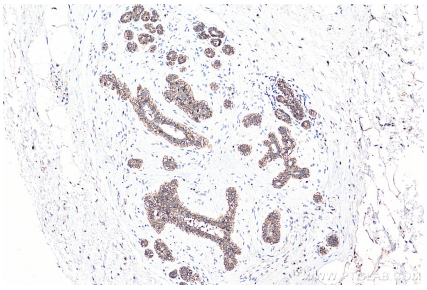
Various lysates were subjected to SDS PAGE followed by western blot with 20874-1-AP (E-cadherin antibody) at dilution of 1:70000 incubated at room temperature for 1.5 hours.



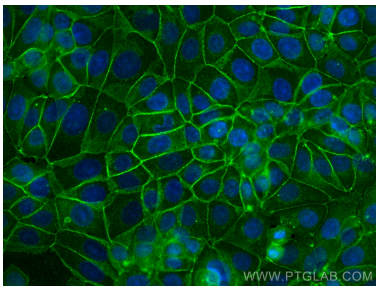
FFPE adult mouse small intestine stained for E-cadherin (white, 20874-1-AP5), LYVE1 (green), and alpha-smooth muscle actin (red). E-cadherin marks intestinal epithelial cells, which regulate nutrient absorption. LYVE1 stains gut lymphatics, which absorb fat. Alpha-smooth muscle actin stains perivascular smooth muscle cells and the surrounding smooth muscle, which help propel food in the gut. Image credit: @Immunofluorescence on Instagram.



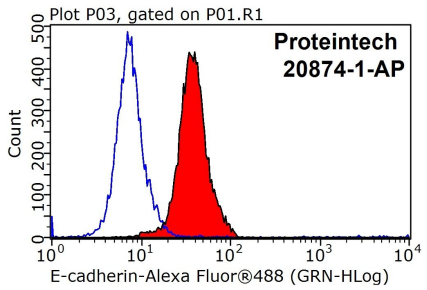
Immunohistochemical analysis of paraffin-embedded human breast cancer tissue slide using 20874-1-AP (E-cadherin antibody) at dilution of 1:4000 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



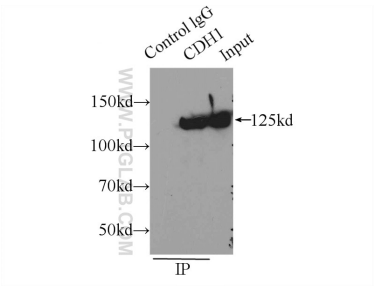
Immunohistochemical analysis of paraffin-embedded human breast cancer tissue slide using 20874-1-AP (E-cadherin antibody) at dilution of 1:4000 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



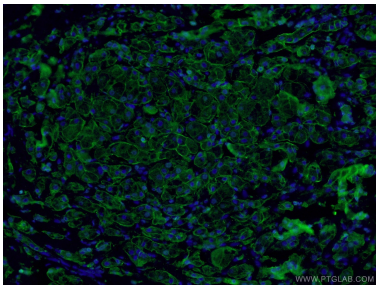
Immunofluorescent analysis of (-20°C Methanol) fixed MCF-7 cells using E-cadherin antibody (20874-1-AP) at dilution of 1:400 and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).



1X10^6 HepG2 cells were stained with .2ug E-cadherin antibody (20874-1-AP, red) and control antibody (blue). Fixed with 90% MeOH blocked with 3% BSA (30 min). Alexa Fluor 488-conjugated AffiniPure Goat Anti-Rabbit IgG(H+L) with dilution 1:1000.



IP Result of anti-E-cadherin (IP:20874-1-AP, 3ug; Detection:20874-1-AP 1:1000) with A431 cells lysate 3000ug.



Immunofluorescent analysis of (4% PFA) fixed human breast cancer tissue using 20874-1-AP (E-cadherin antibody) at dilution of 1:50 and Alexa Fluor 488-conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).