

Alpha E-Catenin Polyclonal antibody

Catalog Number: 12831-1-AP

16 Publications

Basic Information

Catalog Number:

12831-1-AP

Size:

700 µg/ml

Source:

Rabbit

Isotype:

IgG

Immunogen Catalog Number:

AG3565

GenBank Accession Number:

BC031262

GeneID (NCBI):

1495

UNIPROT ID:

P35221

Full Name:

catenin (cadherin-associated protein),
alpha 1, 102kDa

Calculated MW:

906 aa, 100 kDa

Observed MW:

100 kDa

Purification Method:

Antigen affinity purification

Recommended Dilutions:

WB 1:1000-1:4000

IP 0.5-4.0 µg for 1.0-3.0 mg of total
protein lysate

IHC 1:20-1:200

IF 1:10-1:100

Applications

Tested Applications:

FC, IF/ICC, IHC, IP, WB, ELISA

Cited Applications:

IF, WB

Species Specificity:

human, mouse, rat

Cited Species:

human, rat, mouse

Positive Controls:

WB : mouse uterus tissue,

IP : mouse brain tissue,

IHC : human stomach tissue, human colon tissue,
human pancreas cancer tissue

IF : A431 cells,

**Note-IHC: suggested antigen retrieval with
TE buffer pH 9.0; (*) Alternatively, antigen
retrieval may be performed with citrate
buffer pH 6.0**

Background Information

Alpha catenin is an essential component of adherens junctions that connects E-cadherin- β -catenin complexes with the actin cytoskeleton. It also recruits a range of other important proteins to developing intercellular junctions. Three alpha catenins exist in human: alpha-E-catenin, alpha-N-catenin, and alpha-T-catenin, which share substantial amino-acid sequence similarity but have distinct tissue distribution. alpha-E-catenin is ubiquitously expressed, alpha-N-catenin is restricted to neuronal tissue, and alpha-T-catenin is primarily expressed in heart tissue. Reduced levels of alpha-E-catenin protein seem to be characteristic of many different human cancers, including malignant tumours of the breast, colon, stomach, oesophagus, bladder and liver. In addition, the loss of alpha-E-catenin often correlates with the degree of tumour differentiation and metastasis.

Notable Publications

Author	Pubmed ID	Journal	Application
Quan Zhou	31659258	Oncogene	WB
Xiaoli Ji	34650058	Cell Death Discov	WB
Yibin Zhou	30542490	Exp Ther Med	WB

Storage

Storage:

Store at -20°C. Stable for one year after shipment.

Storage Buffer:

PBS with 0.02% sodium azide and 50% glycerol pH 7.3.

Aliquoting is unnecessary for -20°C storage

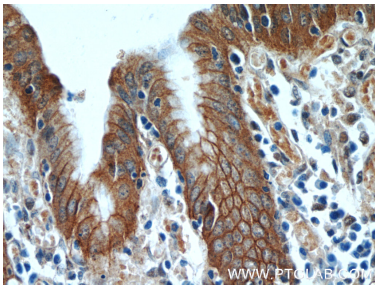
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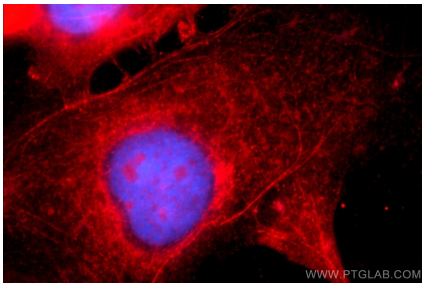
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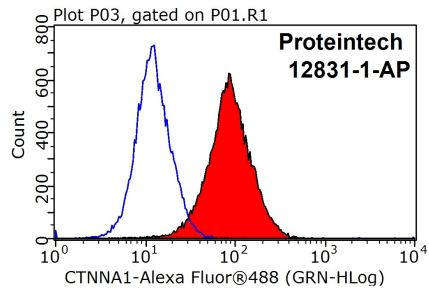
Selected Validation Data



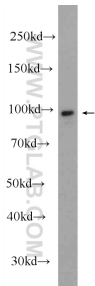
Immunohistochemical analysis of paraffin-embedded human stomach tissue slide using 12831-1-AP (Alpha E catenin antibody at dilution of 1:50 (under 40x lens).



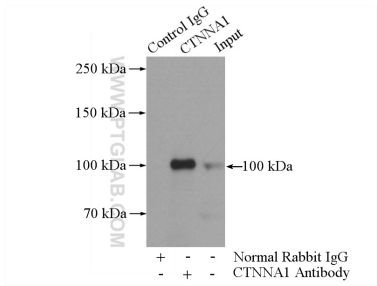
Immunofluorescent analysis of A431 cells using 12831-1-AP (Alpha E catenin antibody) at dilution of 1:25 and Rhodamine-Goat anti-Rabbit IgG.



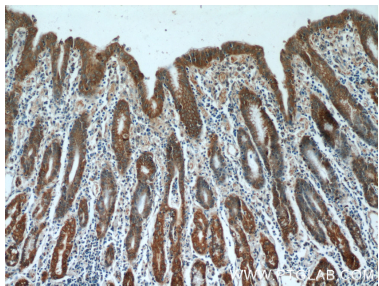
1X10⁶ MCF-7 cells were stained with 0.2ug Alpha E catenin antibody (12831-1-AP, red) and control antibody (blue). Fixed with 90% MeOH blocked with 3% BSA (30 min). Alexa Fluor 488-conjugated AffiniPure Goat Anti-Rabbit IgG(H+L) with dilution 1:1000.



mouse uterus tissue were subjected to SDS PAGE followed by western blot with 12831-1-AP (Alpha E catenin antibody at dilution of 1:2000 incubated at room temperature for 1.5 hours.



IP result of anti-Alpha E-Catenin (IP:12831-1-AP, 4ug; Detection:12831-1-AP 1:700) with mouse brain tissue lysate 4000ug.



Immunohistochemical analysis of paraffin-embedded human stomach tissue slide using 12831-1-AP (Alpha E catenin antibody at dilution of 1:50 (under 10x lens).