Alpha E-Catenin Polyclonal antibody

Catalog Number: 12831-1-AP

8 Publications

Basic Information

Catalog Number: 12831-1-AP
Size: 150UL, Concentration: 413 μg/ml by Bradford method using BSA as the standard;
Source: Rabbit
Isotype: IgG
Immunogen Catalog Number: AG3565

GenBank Accession Number: BC031262
GeneID (NCBI): 1405
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 IP and 1:500-1:1000 for WB
IHC 1:20-1:200
IF 1:10-1:100

Applications

Tested Applications: FC, IF, IHC, IP, WB, ELISA
Cited Applications: IF, WB
Species Specificity: human, mouse, rat
Cited Species: human

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

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<th>Author</th>
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<td>Quan Zhou</td>
<td>31659258</td>
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<td>Yibin Zhou</td>
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<td>Q Zhou</td>
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Storage

Storage: Store at -20°C. Stable for one year after shipment.
Storage Buffer: PBS with 0.1% sodium azide and 50% glycerol pH 7.3.
Aliquoting is unnecessary for -20°C storage

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

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.
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.

1x10^6 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 5% 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).