

Datasheet for ABIN3043818
anti-CTNNA1 antibody (AA 143-292)



[Go to Product page](#)

5 Images

2 Publications

Overview

Quantity:	100 µg
Target:	CTNNA1
Binding Specificity:	AA 143-292
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This CTNNA1 antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p)), Immunohistochemistry (Frozen Sections) (IHC (fro))

Product Details

Purpose:	Rabbit IgG polyclonal antibody for Catenin alpha-1(CTNNA1) detection. Tested with WB, IHC-P in Human,Mouse,Rat.
Immunogen:	E.coli-derived human CTNNA1 recombinant protein (Position: D143-D292). Human CTNNA1 shares 98% amino acid (aa) sequence identity with mouse CTNNA1.
Isotype:	IgG
Cross-Reactivity (Details):	No cross reactivity with other proteins.
Characteristics:	Rabbit IgG polyclonal antibody for Catenin alpha-1(CTNNA1) detection. Tested with WB, IHC-P in Human,Mouse,Rat. Gene Name: catenin (cadherin-associated protein), alpha 1, 102 kDa Protein Name: Catenin alpha-1

Product Details

Purification: Immunogen affinity purified.

Target Details

Target: CTNNA1

Alternative Name: CTNNA1 ([CTNNA1 Products](#))

Background: CTNNA1, also known as Catenin alpha-1 or Catenin (cadherin-associated protein), alpha 1, is a protein that in humans is encoded by the CTNNA1 gene. It is mapped to 5q31.2. When surface epithelium CTNNA1 was ablated, hair follicle development was blocked and epidermal morphogenesis was dramatically affected, with defects in adherens junction formation, intercellular adhesion, and epithelial polarity. In vitro, CTNNA1 null keratinocytes were poorly contact inhibited and grew rapidly. These differences were not dependent upon intercellular adhesion and were in marked contrast to keratinocytes conditionally null for another essential intercellular adhesion protein, desmoplakin Knockout keratinocytes exhibited sustained activation of the Ras-MAPK cascade due to aberrations in growth factor responses. It is concluded that features of precancerous lesions often attributed to defects in cell cycle regulatory genes can be generated by compromising the function of CTNNA1.

Synonyms: alpha catenin antibody|alpha E catenin antibody|Alpha E-catenin antibody|alphaE catenin antibody|Cadherin associated protein 102 kDa antibody|Cadherin associated protein antibody|Cadherin-associated protein antibody|CAP 102 antibody|CAP102 antibody|Catenin (cadherin associated protein) alpha 1 102 kDa antibody|Catenin (cadherin associated protein), alpha 1, 102 kDa antibody|Catenin alpha 1 antibody|Catenin alpha-1 antibody|CTNA1_HUMAN antibody|CTNNA 1 antibody|CTNNA1 antibody|FLJ36832 antibody|FLJ52416 antibody|NY REN 13 antigen antibody|OTTHUMP00000224141 antibody|OTTHUMP00000224147 antibody|Renal carcinoma antigen NY REN 13 antibody|Renal carcinoma antigen NY-REN-13 antibody

Gene ID: 1495

UniProt: [P35221](#)

Pathways: [Regulation of Muscle Cell Differentiation](#), [Cell-Cell Junction Organization](#), [Maintenance of Protein Location](#)

Application Details

Application Notes: WB: Concentration: 0.1-0.5 µg/mL, Tested Species: Human, Rat, The detection limit for CTNNA1 is approximately 0.25 ng/lane under reducing conditions.

Application Details

IHC-P: Concentration: 0.5-1 µg/mL, Tested Species: Human, Mouse, Rat, Epitope Retrieval by Heat: Boiling the paraffin sections in 10 mM citrate buffer, pH 6.0, for 20 mins is required for the staining of formalin/paraffin sections.

IHC-F: Concentration: 0.5-1 µg/mL, Tested Species: Rat

Notes: Tested Species: Species with positive results. Other applications have not been tested.

Optimal dilutions should be determined by end users.

Comment: Antibody can be supported by chemiluminescence kit ABIN921124 in WB, supported by ABIN921231 in IHC(P) and IHC(F).

Restrictions: For Research Use only

Handling

Format: Lyophilized

Reconstitution: Add 0.2 mL of distilled water will yield a concentration of 500 µg/mL.

Concentration: 500 µg/mL

Buffer: Each vial contains 5 mg BSA, 0.9 mg NaCl, 0.2 mg Na₂HPO₄, 0.05 mg Sodium azide.

Preservative: Sodium azide

Precaution of Use: This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

Handling Advice: Avoid repeated freezing and thawing.

Storage: 4 °C/-20 °C

Storage Comment: At -20°C for one year. After reconstitution, at 4°C for one month.
It can also be aliquotted and stored frozen at -20 °C for a longer time. Avoid repeated freezing and thawing.

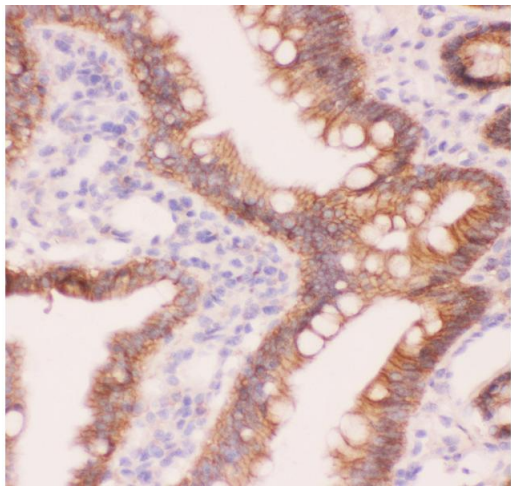
Publications

Product cited in: Ren, Qiu, Lü, Ru, Li, Xiang, Yu, Zhang: "TALENs-directed knockout of the full-length transcription factor Nrf1α that represses malignant behaviour of human hepatocellular carcinoma (HepG2) cells." in: **Scientific reports**, Vol. 6, pp. 23775, (2017) ([PubMed](#)).

Lin, Wu, Li, Wu, Zheng: "Prognostic and clinicopathological features of E-cadherin, alpha-catenin, beta-catenin, gamma-catenin and cyclin D1 expression in human esophageal squamous cell

carcinoma." in: **World journal of gastroenterology**, Vol. 10, Issue 22, pp. 3235-9, (2005) ([PubMed](#)).

Images



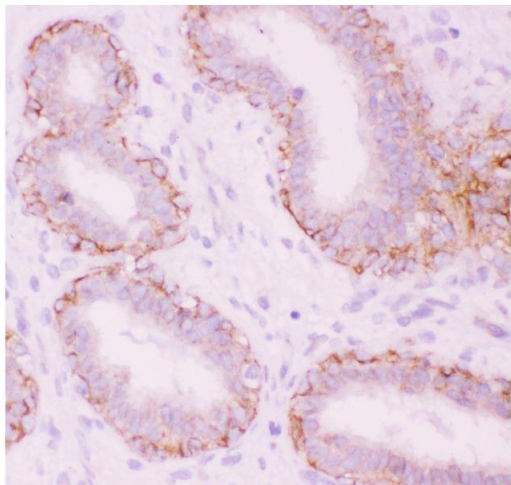
Immunohistochemistry

Image 1. Anti-CTNNA1 Picoband antibody, IHC(P): Rat Intestine Tissue



Western Blotting

Image 2.



Immunohistochemistry

Image 3. Anti-CTNNA1 Picoband antibody, IHC(P): Human Mammary Tissue

Please check the [product details page](#) for more images. Overall 5 images are available for ABIN3043818.