Product datasheet Anti-Alpha E-Catenin/CTNNA1 Antibody Catalog Number: BA0425

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Basic Information	
Product Name	Anti-Alpha E-Catenin/CTNNA1 Antibody
Gene Name	CTNNA1
Source	Rabbit
Clonality	Polyclonal
lsotype	lgG
Species Reactivity	human, mouse, rat, rabbit
Tested Application	WB, IHC
Contents	500 ug/ml antibody with PBS, 0.02% NaN3, 1 mg/ml BSA and 50% glycerol.
Immunogen	E.coli-derived human CTNNA1 recombinant protein (Position: D143-D292). Human CTNNA1 shares 98% amino acid (aa) sequence identity with mouse CTNNA1.
Concentration	500 ug/ml
Purification	Immunogen affinity purified.
Observed MW	100 kDa
Dilution Ratios	Western blot (WB):1:500-2000Immunohistochemistry (IHC):1:50-400(Boiling the paraffin sections in 10mM citrate buffer,pH6.0,or PH8.0 EDTA repair liquid for 20mins is required for the staining of formalin/paraffin sections.) Optimal working dilutions must be determined by end user.

Storage

12 months from date of receipt, -20°C as supplied.

Background Information

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.

Selected Validation Data

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Western blot analysis of Alpha E-Catenin/CTNNA1 using anti-Alpha E-Catenin/CTNNA1 antibody (BA0425). The sample well of each lane was loaded with 30 ug of sample under reducing conditions. Lane 1: MCF-7 whole cell lysates.

After electrophoresis, proteins were transferred to a membrane. Then the membrane was incubated with rabbit anti-Alpha E-Catenin/CTNNA1 antigen affinity purified polyclonal antibody (BA0425) at a dilution of 1:1000 and probed with a goat anti-rabbit IgG-HRP secondary antibody (Catalog # BA1054). The signal is developed using ECL Plus Western Blotting Substrate (Catalog # AR1197). A specific band was detected for Alpha E-Catenin/CTNNA1 at approximately 100 kDa. The expected band size for Alpha E-Catenin/CTNNA1 is at 100 kDa.



IHC analysis of Alpha E-Catenin/CTNNA1 using anti-Alpha E-Catenin/CTNNA1 antibody (BA0425).

Alpha E-Catenin/CTNNA1 was detected in a paraffin-embedded section of mammary cancer tissue. Biotinylated goat anti-rabbit IgG was used as secondary antibody. The tissue section was incubated with rabbit anti-Alpha E-Catenin/CTNNA1 Antibody (BA0425) at a dilution of 1:200 and developed using Strepavidin-Biotin-Complex (SABC) (Catalog # SA1022) with DAB (Catalog # AR1027) as the chromogen.