Product Datasheet

a-catenin Antibody

Catalog No: #21330

Package Size: #21330-1 50ul #21330-2 100ul

Orders: order@signalwayantibody.com
Support: tech@signalwayantibody.com

Description

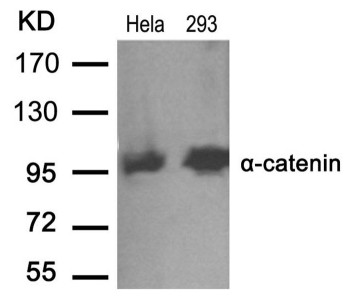
Product Name	a-catenin Antibody
Host Species	Rabbit
Clonality	Polyclonal
Purification	Antibodies were produced by immunizing rabbits with synthetic peptide and KLH conjugates. Antibodies were purified by affinity-chromatography using epitope-specific peptide.
Applications	WB
Species Reactivity	Human;Mouse
Specificity	The antibody detects endogenous level of total a-catenin protein.
Immunogen Type	Peptide-KLH
Immunogen Description	Peptide sequence around aa. 639~643 (D-D-S-D-F) derived from Human a-catenin.
Conjugates	Unconjugated
Target Name	a-catenin
Other Names	Cadherin-associated protein; Alpha E-catenin; NY-REN-13 antigen
Accession No.	Swiss-Prot: P35221NCBI Protein: NP_001894.2
Concentration	1.0mg/ml
Formulation	Supplied at 1.0mg/mL in phosphate buffered saline (without Mg2+ and Ca2+), pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Storage	Store at -20°C for long term preservation (recommended). Store at 4°C for short term use.

Application Details

Predicted MW: 100kd

Western blotting: 1:500~1:1000

Images



Western blot analysis of extracts from Hela and 293 cells using a-catenin(Ab-641) antibody #21330.

Background

Associates with the cytoplasmic domain of a variety of cadherins. The association of catenins to cadherins produces a complex which is linked to the actin filament network, and which seems to be of primary importance for cadherins cell-adhesion properties. May play a crucial role in cell differentiation.

Hwang, S.G. et al. (2005) J. Biol. Chem. 280, 12758-12765
Drees, F. et al. (2005) Cell 123, 903-915.
Yamada, S. et al. (2005) Cell 123, 889-901.
Kobielak, A. and Fuchs, E. (2004) Nat. Rev. Mol. Cell Biol. 5, 614-625.

Published Papers

el at., ðO -Catenin phosphorylation promotes intercellular adhesion through a dual-kinase mechanism. In J Cell Sci on 2015 Mar 15 by David J Escobar, Ridhdhi Desai,et al..PMID:25653389, , (2015)

PMID:25653389

David J. Escobar;Ridhdhi Desai;Noboru Ishiyama;Stephen S. Folmsbee;Megan N. Novak;Annette S. Flozak;Rebecca L. Daugherty;Rigen Mo;Dhaval Nanavati;Ritu Sarpal;Deborah Leckband;Mitsu Ikura;Ulrich Tepass;Cara J. Gottardi el at., The Actin-Binding Protein Alpha-Catenin is Phosphorylated by a Dual-Kinase Mechanism to Promote Intercellular Adhesion and Density-Dependent Inhibition of Proliferation, , (2015)

PMID:25653389