a-catenin(Phospho-Ser641) Antibody

Catalog No: #11330

Package Size: #11330-1 50ul #11330-2 100ul



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

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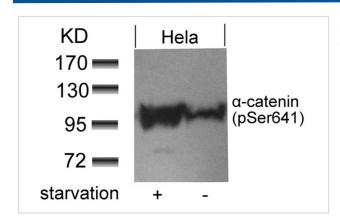
Product Name	a-catenin(Phospho-Ser641) Antibody	
Host Species	Rabbit	
Clonality	Polyclonal	
Purification	Antibodies were produced by immunizing rabbits with synthetic phosphopeptide and KLH conjugates.	
	Antibodies were purified by affinity-chromatography using epitope-specific phosphopeptide. Non-phospho	
	specific antibodies were removed by chromatogramphy using non-phosphopeptide.	
Applications	WB	
Species Reactivity	Human;Mouse	
Specificity	The antibody detects endogenous level of a-catenin only when phosphorylated at serine 641.	
Immunogen Type	Peptide-KLH	
Immunogen Description	Peptide sequence around phosphorylation site of serine 641 (D-D-S(p)-D-F) derived from Human a-catenin.	
Conjugates	Unconjugated	
Target Name	a-catenin a-catenin	
Modification	Phospho	
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

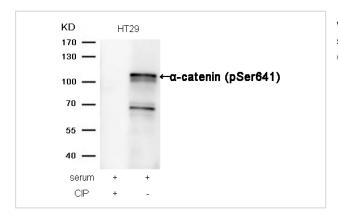
Predicted MW: 100kd

Western blotting: 1:500~1:1000

Images



Western blot analysis of extracts from Hela cells untreated or treated with starvation using a-catenin(Phospho-Ser641) antibody #11330.



Western blot analysis of extracts from HT29 cells, treated with serum or calf intestinal phosphatase (CIP), using α -catenin (Phospho-Ser641) Antibody #11330.

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

Ji H, Wang J, Nika H el at., EGF-induced ERK activation promotes CK2-mediated disassociation of alpha-Catenin from beta-Catenin and transactivation of beta-Catenin., Mol Cell, 36(4):547-559(2009)

PMID:19941816

el at., Force-dependent allostery of the α-catenin actin-binding domain controls adherens junction dynamics and functions.In Nat Commun. On 2018 Nov 30 by Ishiyama N, Sarpal R et al..PMID: 30504777, , (2018)

PMID:30504777

el at., 2?Aminothiazole Derivatives as Selective Allosteric Modulators of the Protein Kinase CK2. 2. Structure-Based Optimization and Investigation of Effects Specific to the Allosteric Mode of Action.In J Med Chem.On 2019 Feb 28 by Bestgen B, Kufareva I et al..PMID:30689946, , (2019)

PMID:30689946

el at., Ginsenoside Rh2 activates α -catenin phosphorylation to inhibit lung cancer cell proliferation and invasion. In Exp Ther Med on 2020 Apr; by Zhang G, He L, et al.. PMID: 32256776, , (2020)

PMID:32256776

el at., EGF-induced ERK activation promotes CK2-mediated disassociation of alpha-Catenin from beta-Catenin and transactivation of beta-Catenin. In Mol Cell on 2009 Nov 25 by Ji H, Wang J,et al..PMID:19941816, , (2009)

PMID:19941816

el at., EGFR-induced and PKC0 monoubiquitylation-dependent NF-I-• B activation upregulates PKM2 expression and promotes tumorigenesis. In Mol Cell on 2012 Dec 14 by

Weiwei Yang, Yan Xia, et al..PMID: 23123196, , (2012)

PMID:23123196

el at., Helicobacter pylori Induces Cell Migration and Invasion Through Casein Kinase 2 in Gastric Epithelial Cells.In Helicobacter on 2014 Dec by Yeo Song Lee, Do Yeon Lee et al..PMID: 25052887, , (2014)

PMID:25052887

el at., α-catenin phosphorylation is elevated during mitosis to resist apical rounding and epithelial barrier leak. In bioRxiv

[Preprint] on 2024 Sep 6 by Phuong M Le, Jeanne M Quinn, et al.. PMID: 39282345, , (2024)

PMID:39282345

Phuong M Le; Jeanne M Quinn; Annette S Flozak; Adam W T Steffeck; Che-Fan Huang; Cara J Gottardi el at., α-catenin phosphorylation is elevated during mitosis to resist apical rounding and epithelial barrier leak., , (2025)

PMID:39782767

Note: This product is for in vitro research use only and is not intended for use in humans or animals.