1/1/24, 1:41 PM Revision 1

Phospho-α-E-Catenin (Ser655/Thr658) Antibody						
Store					Orders:	877-616-CELL (2355) orders@cellsignal.com
231					Support:	877-678-TECH (8324)
#13231					Web:	info@cellsignal.com cellsignal.com
#				3 Trask	Lane Danvers Ma	ssachusetts 01923 USA
For Research Use Only	y. Not for Use in	Diagnostic Proce	edures.			
Applications: WB, IP	Reactivity: H M R Mk	Sensitivity: Endogenous	MW (kDa): 100	Source: Rabbit	UniProt ID: #P35221	Entrez-Gene Id: 1495
Product Usage	Δn	nlication			Dilution	

Product Usage	Application	Dilution			
Information	Western Blotting	1:1000			
	Immunoprecipitation	1:50			
Storage	Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 μ g/ml BSA and 50% glycerol. Store at – 20°C. Do not aliquot the antibody.				
Specificity / Sensitivity	Phospho- α -E-Catenin (Ser655/Thr658) Antibody recognizes endogenous levels of α -E-catenin protein only when phosphorylated at Ser655 and Thr658.				
Source / Purification	Polyclonal antibodies are produced by immunizing animals with a synthetic phosphopeptide corresponding to residues surrounding Ser655/Thr658 of human α -E-catenin protein. Antibodies are purified by protein A and peptide affinity chromatography.				
Background	Adherens junctions are dynamic structures that form cell-cell contact differentiation, tissue integrity, morphology and cell polarity. They are proteins, cadherins, which bind cadherins on adjacent cells in a calci cytoplasmic side of adherens junctions, the classic model states that cytoskeleton through β - and α -catenin. α -E-catenin is ubiquitously ex- neuronal tissue, and α -T-catenin is primarily expressed in heart tissu demonstrated that loss of E-cadherin and α -E-catenin occurs during cancers, indicating that the breakdown of adherens junctions is impo- in 1). Research studies also suggest that, rather than acting as a static link catenin regulates actin dynamics directly, possibly by competing with (2,3). α -catenin also plays a role in regulating β -catenin-dependent tr differentiation and response to Wnt signaling. α -catenin binds to β -ca regulating transcription, and levels of both proteins appear to be regu- degradation (4). Phosphorylation of α -E-catenin at Ser655 and Thr658 are post-transl number of mass spectrometry studies, using a variety of tissue and co origin (5-8).	composed of the transmembrane um-dependent manner. On the cadherins are linked to the pressed, α-N-catenin is expressed in e. Research studies have the progression of several human rtant in cancer progression (reviewed between cadherins and actin, α- the actin nucleating arp2/3 complex ranscriptional activity, affecting atenin in the nucleus, preventing it from ulated via proteasome-dependent lational modifications identified in a			
Background References	 Kobielak, A. and Fuchs, E. (2004) Nat Rev Mol Cell Biol 5, 614-25 Yamada, S. et al. (2005) Cell 123, 889-901. Drees, F. et al. (2005) Cell 123, 903-15. Hwang, S.G. et al. (2005) J Biol Chem 280, 12758-65. Rigbolt, K.T. et al. (2011) Sci Signal 4, rs3. Brill, L.M. et al. (2009) Cell Stem Cell 5, 204-13. Huttlin, E.L. et al. (2010) Cell 143, 1174-89. Pan, C. et al. (2008) Proteomics 8, 4534-46. 				
Species Reactivity	Species reactivity is determined by testing in at least one approved at	oplication (e.g., western blot).			
Western Blot Buffer	IMPORTANT: For western blots, incubate membrane with diluted primary antibody in 5% w/v BSA, 1X TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.				
Applications Key	WB: Western Blotting IP: Immunoprecipitation				
Cross-Reactivity Key					

1/1/24, 1:41 PM	 Phospho-α-E-Catenin (Ser655/Thr658) Antibody (#13231) Datasheet Without Images Cell Signaling Technol H: human M: mouse R: rat Hm: hamster Mk: monkey Vir: virus Mi: mink C: chicken Dm: D. melanogaster X: Xenopus Z: zebrafish B: bovine Dg: dog Pg: pig Sc: S. cerevisiae Ce: C. elegans Hr: horse GP: Guinea Pig Rab: rabbit All: all species expected
Trademarks and Patents	Cell Signaling Technology is a trademark of Cell Signaling Technology, Inc. All other trademarks are the property of their respective owners. Visit cellsignal.com/trademarks for more information.
Limited Uses	Except as otherwise expressly agreed in a writing signed by a legally authorized representative of CST, the following terms apply to Products provided by CST, its affiliates or its distributors. Any Customer's terms and conditions that are in addition to, or different from, those contained herein, unless separately accepted in writing by a legally authorized representative of CST, are rejected and are of no force or effect.
	Products are labeled with For Research Use Only or a similar labeling statement and have not been approved, cleared, or licensed by the FDA or other regulatory foreign or domestic entity, for any purpose. Customer shall not use any Product for any diagnostic or therapeutic purpose, or otherwise in any manner that conflicts with its labeling statement. Products sold or licensed by CST are provided for Customer as the end-user and solely for research and development uses. Any use of Product for diagnostic, prophylactic or therapeutic purposes, or any purchase of Product for resale (alone or as a component) or other commercial purpose, requires a separate license from CST. Customer shall (a) not sell, license, loan, donate or otherwise transfer or make available any Product to any third party, whether alone or in combination with other materials, or use the Products to manufacture any commercial products, (b) not copy, modify, reverse engineer, decompile, disassemble or otherwise attempt to discover the underlying structure or technology of the Products, or use the Products or services, (c) not alter or remove from the Products any trademarks, trade names, logos, patent or copyright notices or markings, (d) use the Products solely in accordance with CST Product Terms of Sale and any applicable documentation, and (e) comply with any license, terms of service or similar agreement with respect to any third party products or services used by Customer in connection with the Products.