β-Catenin (L54E2) Mouse mAb



877-616-CELL (2355) orders@cellsignal.com Orders:

Support: 877-678-TECH (8324)

info@cellsignal.com cellsignal.com Web:

3 Trask Lane | Danvers | Massachusetts | 01923 | USA

For Research Use Only. Not for Use in Diagnostic Procedures.

Applications: Real W, IP, IF-IC, FC-FP	activity: H	Sensitivity: Endogenous	MW (kDa): 92	Source/Isotype: Mouse IgG1	UniProt ID: #P35222	Entrez-Gene Id: 1499
Product Usage Information		Application Western Blotting Immunoprecipitation Immunofluorescence (Immunocytochemistry) Flow Cytometry (Fixed/Permeabilized)			Dilution 1:1000 1:50 1:200 - 1:800 1:50 - 1:100	
Storage		Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 μ g/ml BSA, 50% glycerol and less than 0.02% sodium azide. Store at –20°C. Do not aliquot the antibody.				
		For a carrier free (BSA and azide free) version of this product see product #34396.				
Specificity/Sensitivit	ty	β -Catenin (L54E2) Mouse mAb detects endogenous levels of total β -catenin protein.				
Species predicted to based on 100% sequ homology	react ence	Mouse, Rat, Pig				
Source / Purification	1	Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to the carboxy terminus of human β -catenin.				
Background		β -catenin is a key downstream effector in the Wnt signaling pathway (1). It is implicated in two major biological processes in vertebrates: early embryonic development (2) and tumorigenesis (3). CK1 phosphorylates β -catenin at Ser45. This phosphorylation event primes β -catenin for subsequent phosphorylation by GSK-3 β (4-6). GSK-3 β destabilizes β -catenin by phosphorylating it at Ser33, Ser37, and Thr41 (7). Mutations at these sites result in the stabilization of β -catenin protein levels and have been found in many tumor cell lines (8).				
Background Referer	nces	 Cadigan, K.M. and Nusse, R. (1997) Genes Dev 11, 3286-3305. Wodarz, A. and Nusse, R. (1998) Annu Rev Cell Dev Biol 14, 59-88. Polakis, P. (1999) Curr Opin Genet Dev 9, 15-21. Amit, S. et al. (2002) Genes Dev 16, 1066-76. Liu, C. et al. (2002) Cell 108, 837-47. Yanagawa, S. et al. (2002) EMBO J 21, 1733-42. Yost, C. et al. (1996) Genes Dev 10, 1443-54. Morin, P.J. et al. (1997) Science 275, 1787-90. 				
Species Reactivity		Species reactivity is de	termined by testin	g in at least one approve	ed application (e.g.,	western blot).
Western Blot Buffer	Blot Buffer IMPORTANT: For western blots, incubate membrane with diluted primary antibody in 5% w/v E TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.					า 5% w/v BSA, 1X
Applications Key		W: Western Blotting IP: Immunoprecipitation IF-IC: Immunofluorescence (Immunocytochemistry) FO: FP: Flow Cytometry (Fixed/Permeabilized)				
Cross-Reactivity Key	•	H: Human				
Trademarks and Pat	ents	Cell Signaling Technology is a trademark of Cell Signaling Technology, Inc.				
		All other trademarks a	re the property of	heir 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 for the purpose of developing any products or services that would compete with CST 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.