Store at -20C

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PhosphoPlus<sup>®</sup> β-Catenin (Ser675) Antibody Duet **Cell Signaling** TECHNOLOGY® Orders: 877-616-CELL (2355) orders@cellsignal.com Support: 877-678-TECH (8324) Web: info@cellsignal.com cellsignal.com 3 Trask Lane | Danvers | Massachusetts | 01923 | USA Entrez-Gene Id:

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

UniProt ID: #P35222	Entrez-Gene Id: 1499				
Product Includes		Product #	Quantity	Mol. Wt.	Isotype/Source
Phospho-β-Catenin (Ser675) (D2F1) XP® Rabbit mAb		4176	100 µl	92 kDa	Rabbit IgG
β-Catenin (D10A8) XP® Rabbit mAb		8480	100 µl	92 kDa	Rabbit IgG

Please visit cellsignal.com for individual component applications, species cross-reactivity, dilutions, protocols, and additional product information.

Description	PhosphoPlus <sup>®</sup> Duets from Cell Signaling Technology (CST) provide a means to assess protein activation status. Each Duet contains an activation-state and total protein antibody to your target of interest. These antibodies have been selected from CST's product offering based upon superior performance in specified applications.	
Storage	Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 μg/ml BSA, 50% glycerol and less than 0.02% sodium azide. Store at –20°C. <i>Do not aliquot the antibody</i> .	
Background	$\beta$ -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 $\beta$ -catenin at Ser45. This phosphorylation event primes $\beta$ -catenin for subsequent phosphorylation by GSK-3 $\beta$ (4-6). GSK-3 $\beta$ destabilizes $\beta$ -catenin by phosphorylating it at Ser33, Ser37, and Thr41 (7). Mutations at these sites result in the stabilization of $\beta$ -catenin protein levels and have been found in many tumor cell lines (8).	
Background References	<ol> <li>Cadigan, K.M. and Nusse, R. (1997) <i>Genes Dev</i> 11, 3286-3305.</li> <li>Wodarz, A. and Nusse, R. (1998) <i>Annu Rev Cell Dev Biol</i> 14, 59-88.</li> <li>Polakis, P. (1999) <i>Curr Opin Genet Dev</i> 9, 15-21.</li> <li>Amit, S. et al. (2002) <i>Genes Dev</i> 16, 1066-76.</li> <li>Liu, C. et al. (2002) <i>Cell</i> 108, 837-47.</li> <li>Yanagawa, S. et al. (2002) <i>EMBO J</i> 21, 1733-42.</li> <li>Yost, C. et al. (1996) <i>Genes Dev</i> 10, 1443-54.</li> <li>Morin, P.J. et al. (1997) <i>Science</i> 275, 1787-90.</li> </ol>	
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