53BP1 Antibody				
Store	Orders:	877-616-CELL (2355) orders@cellsignal.com		
	Support:	877-678-TECH (8324)		
# 493	Web:	info@cellsignal.com cellsignal.com		
#	3 Trask Lane Danvers Mass	sachusetts 01923 USA		

For	Research	Use	Only.	Not f	or Use	in D	iagnostic	Procedures.
	neocai en	000	••••		0. 050		agnostie	

r Research Use O	nly. Not for Use	e in Diagnostic Proced	lures.					
Applications: W, IHC-P, IF-IC	Reactivity: H Mk	Sensitivity: Endogenous	MW (kDa): 450	Source/Isotype: Rabbit	UniProt ID: #Q12888	Entrez-Gene I 7158		
Product Usage Information		Application Western Blotting Immunohistochemist Immunofluorescence		iistry)		Dilution 1:1000 1:100 1:100		
Storage		Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 µg/ml BSA and 50% glycerol. Store at – 20°C. Do not aliquot the antibody.						
Specificity/Sen	sitivity	53BP1 Antibody detects endogenous levels of total 53BP1 protein independent of phosphorylation.						
Source / Purific	cation	Polyclonal antibodies are produced by immunizing animals with a synthetic peptide corresponding to residues near the center of human 53BP1. Antibodies are purified by protein A and peptide affinity chromatography.						
Background		transcriptional activity allow for binding to p H2A.X (3). 53BP1 rapid (IR) or radiomimetic a localization to DSBs a proposed. Recruitmer ATM, NBS1, and DNA- In cells lacking 53BP1 upstream of ATM (7). has been demonstrat	y of p53 (1,2). 53BP 53 and a separate of dly translocates to r igents that cause Di nd homology to the nt of 53BP1 to sites .PK (4) and retention , phosphorylation c In response to IR, p ed, but phosphoryl, sphorylation of 53B	ally identified as a p53 b 1 consists of two BRCA1 Iomain responsible for b nuclear foci following tre NA double strand breaks e yeast protein Rad9, a r of DNA damage has bee n of 53BP1 at DNA break of ATM substrates is redu hosphorylation of 53BP ation at these sites is no P1 at Ser1618 has been	carboxy terminal (I binding to phospho atment of cells with 5 (DSBs) (4,5). Becar ble for 53BP1 in DS en demonstrated to is requires phosphi icced, suggesting th 1 at serines 6, 25, 2 t required for local	BRCT) domains tha rylated histone h ionizing radiation use of this B repair has been b be independent c orylated H2A.X (6). at 53BP1 is 9, and 784 by ATM ization of 53BP1 to		
Background Re	eferences	2. Iwabuchi, K. et al. (3. Mochan, T.A. et al. (4. Schultz, L.B. et al. (5. Anderson, L. et al. (6. Ward, I.M. et al. (20 7. DiTullio, R.A. et al. (1998) J. Biol. Chem. (2004) DNA Repair (2000) J. Cell Biol. 15 2001) Mol. Cell. Bio (03) J. Biol. Chem. 27 2002) Nat. Cell Biol.	'Amst) 3, 945-52. 1, 1381-90. <i>I.</i> 21, 1719-29. 78, 19579-82.				
Species Reactiv	vity	Species reactivity is de	etermined by testin	g in at least one approv	ed application (e.g.	, western blot).		
Western Blot B	uffer	IMPORTANT: For west TBS, 0.1% Tween® 20		membrane with diluted shaking, overnight.	primary antibody i	in 5% w/v BSA, 1X		
Applications Ke	ey	W: Western Blotting I (Immunocytochemist		ochemistry (Paraffin) IF- 1	I C: Immunofluores	cence		
Cross-Reactivit	y Key	H: Human Mk: Monke	ey					
Trademarks and Patents		Cell Signaling Technology is a trademark of Cell Signaling Technology, Inc.						
		Alexa Fluor is a registered trademark of Life Technologies Corporation.						
		All other trademarks a more information.	are the property of	their respective owners.	Visit cellsignal.con	n/trademarks for		

Revision 1

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 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.

Orders: 877-616-CELL (2355) • orders@cellsignal.com • Support: 877-678-TECH (8324) • info@cellsignal.com • Web: cellsignal.com For Research Use Only. Not for Use in Diagnostic Procedures.