e at -20C	Phospho-c-Abl (Thr735) Antibody	C T	Cell Signaling	
Store at		Orders:	877-616-CELL (2355) orders@cellsignal.com	
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For Research Use Only. Not for Use in Diagnostic Procedures.									
Applications:	Peactivity:	Soncitivity	MW (kDa).						

For Research Use Only.	Not for Use i	n Diagnostic Proc	edures.				
Applications: WB	Reactivity: H	Sensitivity: Endogenous	<b>MW (kDa):</b> 135	Source: Rabbit	<b>UniProt ID:</b> #P00519	Entrez-Gene Id: 25	
Product Usage Information		pplication /estern Blotting			Dilution 1:1000		
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 / Sensitivity		Phospho-c-Abl (Thr735) Antibody detects endogenous levels of c-Abl or Bcr-Abl only when phosphorylated at threonine 735. The antibody does not cross-react with other related proteins.					
Species predicted t react based on 100 sequence homolog	%	buse					
Source / Purification		Polyclonal antibodies are produced by immunizing animals with synthetic phosphopeptide corresponding to residues surrounding Thr735 of human c-Abl. Antibodies are purified by protein A and peptide affinity chromatography.					
Background		The c-Abl proto-oncogene encodes a nonreceptor protein tyrosine kinase that is ubiquitously expressed and highly conserved in metazoan evolution. c-Abl protein is distributed in both the nucleus and the cytoplasm of cells. It is implicated in regulating cell proliferation, differentiation, apoptosis, cell adhesion, and stress responses (1-3). c-Abl kinase activity is increased <i>in vivo</i> by diverse physiological stimuli including integrin activation; PDGF stimulation; and binding to c-Jun, Nck, and RFX1 (2,4). The <i>in vivo</i> mechanism for regulation of c-Abl kinase activity is not completely understood. Tyr245 is located in the linker region between the SH2 and catalytic domains. This positioning is conserved among Abl family members. Phosphorylation at Tyr245 is involved in the activation of c-Abl kinase (5). In addition, phosphorylation at Tyr412, which is located in the kinase activation loop of c-Abl, is required for kinase activity (6). Thr735 is located within a conserved 14-3-3 protein binding motif region, and can be phosphorylated upon stress stimulation or TPA treatment. Phosphorylation at Thr735 may play an important role in regulating c- Abl localization as well as its function.					
Background References		Danial, N.N. and Rot Shaul, Y. (2000) <i>Cell</i>	9) Trends Cell Biol 9 hman, P. (2000) On Death Differ 7, 10-0 n Etten, R.A. (2000	rends Cell Biol 9, 179-86. an, P. (2000) Oncogene 19, 2523-31. ath Differ 7, 10-6. tten, R.A. (2000) J Biol Chem 275, 35631-7.			
Species Reactivity	Spe	cies reactivity is dete	ermined by testing i	n at least one appro	oved application (e.g., we	estern 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	WE	3: Western Blotting					
Cross-Reactivity Ke	<b>X</b> : >		B: bovine Dg: dog	Pg: pig Sc: S. cere	s <b>Mi:</b> mink <b>C:</b> chicken <b>D</b> i evisiae <b>Ce:</b> C. elegans <b>H</b>	0	

Trademarks and Patents

Limited Uses

Phospho-c-Abl (Thr735) Antibody (#2864) Datasheet Without Images Cell Signaling Technology

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