Revision 1			
Phospho-Shc (Tyr239/240) Antibody	C C	Cell Signaling	
Store	Orders:	877-616-CELL (2355) orders@cellsignal.com	
→	Support:	877-678-TECH (8324)	
#2434	Web:	info@cellsignal.com cellsignal.com	
#	3 Trask Lane Danvers Mas	sachusetts 01923 USA	
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Applications: W	Reactivity: H M R	Sensitivity: Endogenous	MW (kDa): 50, 55, 70	Source/Isotype: Rabbit	UniProt ID: #P29353	Entrez-Gene Id: 6464	
Product Usage Information	2	Application Western 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/Se	nsitivity	Phospho-Shc (Tyr239/240) Antibody detects Shc only when phosphorylated at tyrosine 239/240. The antibody may cross-react with activated EGF receptor protein.					
Source / Purifi	ication	Polyclonal antibodies are produced by immunizing animals with a synthetic phosphopeptide corresponding to residues surrounding Tyr239/240 of human Shc. Antibodies are purified by protein A and peptide affinity chromatography.					
Background		SHC-transforming protein 1 (SHC1) is an adaptor protein to targets of activated tyrosine kinases. SHC1 is ubiquitously expressed and the gene is expressed in 2 transcripts, resulting in 3 isoforms with distinct functions and subcellular locations (1). The phosphorylated p46 and p52 isoforms couple activated receptor tyrosine kinases to Ras via the recruitment of the GRB2/SOS complex. The third isoform, p66, acts as a downstream target of the tumor suppressor p53 and is thereby implicated in oxidative stress response, tumor progression, and cancer cell proliferation (2,3). SHC1 has been identified to have prognostic and diagnostic value in multiple cancers, making it a potential biomarker (4).					
Background R	eferences	1. Terada, L.S. (2019) <i>Small GTPases</i> 10, 64-71. 2. Audero, E. et al. (2004) <i>J Biol Chem</i> 279, 13224-33. 3. Lebiedzinska-Arciszewska, M. et al. (2015) <i>Eur J Clin Invest</i> 45 Suppl 1, 25-31. 4. Chen, J. et al. (2022) <i>Front Genet</i> 13, 817118.					
Species React	ivity	Species reactivity is de	etermined by testin	g in at least one approve	ed application (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 K	(ey	W: Western Blotting					
Cross-Reactivi	ity Key	H: Human M: Mouse R: Rat					
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