Shc Antibody	Cell Signaling TECHNOLOGY®					
Store	Orders: 877-616-CELL (2355) orders@cellsignal.com					
	Support: 877-678-TECH (8324)					
#2432	Web: info@cellsignal.com cellsignal.com					
#	3 Trask Lane Danvers Massachusetts 01923 USA					
For Research Use Only. Not for Use in Diagnostic Procedures.						

Applications: W	Reactivity: H M R	Sensitivity: Endogenous	MW (kDa): 46, 52, 66	Source/Isotype: Rabbit	UniProt ID: #P29353	Entrez-Gene Id: 6464		
Product Usage Information	9	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/Ser	nsitivity	Shc Antibody detects endogenous levels of total Shc protein.						
Source / Purifi	ource / Purification Polyclonal antibodies are produced by immunizing animals with a synthetic peptide correspondence of the carboxy-terminal PTB domain of human Shc. Antibodies are purified 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 Reacti	ivity	Species reactivity is determined by testing in at least one approved application (e.g., western blot).						
Western Blot I	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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