Σ Integrin α5 Antibody		Cell Signaling	
Store	Orders:	877-616-CELL (2355) orders@cellsignal.com	
	Support:	877-678-TECH (8324)	
#4705	Web:	info@cellsignal.com cellsignal.com	
2#	3 Trask Lane Danvers Mass	achusetts 01923 USA	

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

Applications: W	Reactivity: H M Mk	Sensitivity: Endogenous	MW (kDa): 150	Source/Isotype: Rabbit	UniProt ID: #P08648	Entrez-Gene Id: 3678		
Product Usage Information		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/Sens	itivity	Integrin α5 Antibody detects endogenous levels of total integrin α5 protein.						
Source / Purifica	ation	Polyclonal antibodies are produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Ser458 of human integrin α5 protein. Antibodies are purified by protein A and peptide affinity chromatography.						
Background		Integrins are α/β heterodimeric cell surface receptors that play a pivotal role in cell adhesion and migration, as well as in growth and survival (1,2). The integrin family contains at least 18 α and 8 β subunits that form 24 known integrins with distinct tissue distribution and overlapping ligand specificities (3). Integrins not only transmit signals to cells in response to the extracellular environment (outside-in signaling), but also sense intracellular cues to alter their interaction with the extracellular environment (inside-out signaling) (1,2). Integrin $\alpha5/\beta1$ is involved in multiple biological processes including embryonic development, angiogenesis and tumor metastasis (4,5). By interaction with its fibronectin ligand, $\alpha5/\beta1$ transduces signals that regulate cell adhesion, migration, matrix assembly and cytoskeletal organization (6).						
Background Ref	erences		resh, D.A. (2002) <i>Na</i> l Sonnenberg, A. (20 t al. (2004) <i>Mol Hur J Biol Chem</i> 275, 33	<i>t Rev Cancer</i> 2, 91-100. 001) <i>Cell Tissue Res</i> 305, <i>n Reprod</i> 10, 91-7. 920-8.	285-98.			
Species Reactivi	ity	Species reactivity is de	etermined by testin	g in at least one approve	ed application (e.g.,	western blot).		
Western Blot Bu	ıffer	IMPORTANT: For western blots, incubate membrane with diluted primary antibody in 5% w/v nonfat dry milk, 1X TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.						
Applications Ke	у	W: Western Blotting						
Cross-Reactivity	/ Кеу	H: Human M: Mouse Mk: Monkey						
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