Integrin β5 (D24A5) Rabbit mAb





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Applications: W, IP, IF-IC	Reactivity: H M R Mk	Sensitivity: Endogenous	MW (kDa): 90	Source/Isotype: Rabbit IgG	UniProt ID: #P18084	Entrez-Gene Id: 3693		
Product Usage Information		Application Western Blotting Immunoprecipitation Immunofluorescence		istry)		Dilution 1:1000 1:50 1:1600		
Storage		Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 μg/ml BSA, 50% glycerol and less tha 0.02% sodium azide. Store at –20°C. Do not aliquot the antibody.						
Specificity/Sensitivity		Integrin β 5 (D24A5) Rabbit mAb detects endogenous levels of total integrin β 5 protein.						
Source / Purification		Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Lys789 of human integrin β 5 protein.						
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 having 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 extracellular environment (inside-out signaling) (1,2). The $\alphaV\beta5$ integrin is expressed in various tissues and cell types, including endothelia, epithelia and fibroblasts (4). It plays a role in matrix adhesion to VN, FN, SPARC and bone sialoprotein (5) and functions in the invasion of gliomas and metastatic carcinoma cells (6,7). $\alphaV\beta5$ integrin plays a major role in growth-factor-induced tumor angiogenesis, where cooperative signaling by the $\alphaV\beta5$ integrin and growth factors regulates endothelial cell proliferation and survival (8).						
Background Ro	eferences	 Hood, J.D. and Cheresh, D.A. (2002) <i>Nat. Rev. Cancer</i> 2, 91-100. Liu, S. et al. (2000) <i>J. Cell Sci.</i> 113, 3563-3571. van der Flier, A. and Sonnenberg, A. (2001) <i>Cell Tissue Res.</i> 305, 285-298. Pasqualini, R. et al. (1993) <i>J. Cell Sci.</i> 105, 101-111. Plow, E.F. et al. (2000) <i>J. Biol. Chem.</i> 275, 21785-21788. Sun, L.C. et al. (2007) <i>Cancer Lett.</i> 246, 157-166. Enns, A. et al. (2005) <i>Eur. J. Cancer</i> 41, 1065-1072. Alghisi, G.C. and Rüegg, C. (2006) <i>Endothelium</i> 13, 113-135. 						
Species Reactiv	vity	Species reactivity is determined by testing in at least one approved application (e.g., western blot).						
Western Blot E	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 IP: Immunoprecipitation IF-IC: Immunofluorescence (Immunocytochemistry)						
Cross-Reactivit	ty Key	H: Human M: Mouse R: Rat Mk: Monkey						
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