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Integrin β1 Antibody



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

Applications: W	Reactivity: H M R Mk	Sensitivity: Endogenous	MW (kDa): 115, 135	Source/Isotype: Rabbit	UniProt ID: #P05556	Entrez-Gene Id: 3688
Product Usage Information		Application Western Blotting			Dilution 1:1000	
Storage		Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 μ g/ml BSA and 50% glycerol. Store at – 20°C. Do not aliquot the antibody.				
Specificity/Sensitivity		Integrin $\beta 1$ Antibody detects endogenous levels of total integrin $\beta 1$ protein.				
Source / Purification		Polyclonal antibodies are produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Pro680 of human integrin β 1 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). The β 1 subfamily includes 12 distinct integrin proteins that bind to different extracellular matrix molecules (4). Control of extracellular integrin binding influences cell adhesion and migration, while intracellular signaling messages relayed by the β 1 cytoplasmic tail help to regulate cell proliferation, cytoskeletal reorganization, and gene expression (4). Research studies have implicated β 1 integrin in various activities including embryonic development, blood vessel, skin, bone, and muscle formation, as well as tumor metastasis and angiogenesis (4,5).				
Background References		 Liu, S. et al. (2000) J Cell Sci 113 (Pt 20), 3563-71. Hood, J.D. and Cheresh, D.A. (2002) Nat Rev Cancer 2, 91-100. van der Flier, A. and Sonnenberg, A. (2001) Cell Tissue Res 305, 285-98. Brakebusch, C. and Fässler, R. (2005) Cancer Metastasis Rev 24, 403-11. Mettouchi, A. and Meneguzzi, G. (2006) Eur J Cell Biol 85, 243-7. 				

Species Reactivity Species reactivity is determined by testing in at least one approved application (e.g., western blot).

Western Blot Buffer 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 Key W: Western Blotting

Cross-Reactivity Key H: Human M: Mouse R: Rat Mk: Monkey

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