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## Integrin α5 Antibody



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Applications: WB	Reactivity: H M Mk	Sensitivity: Endogenous	<b>MW (kDa):</b> 150	Source: Rabbit	UniProt ID: #P08648	Entrez-Gene Id: 3678
Product Usage Information	Ар	plication		Dilution		
	We	Western Blotting			1:1000	
Storage		Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 $\mu$ g/ml BSA and 50% glycerol. Store at – 20°C. Do not aliquot the antibody.				
Specificity / Sens	sitivity Integ	Integrin $\alpha 5$ Antibody detects endogenous levels of total integrin $\alpha 5$ protein.				
Source / Purifica	resid	Polyclonal antibodies are produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Ser458 of human integrin $\alpha$ 5 protein. Antibodies are purified by protein A and peptide affinity chromatography.				
Background	as w 24 k tran: intra Integ and	Integrins are $\alpha/\beta$ 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 $\alpha$ and 8 $\beta$ 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 $\alpha 5/\beta 1$ is involved in multiple biological processes including embryonic development, angiogenesis and tumor metastasis (4,5). By interaction with its fibronectin ligand, $\alpha 5/\beta 1$ transduces signals that regulate cell adhesion, migration, matrix assembly and cytoskeletal organization (6).				
Background Ref	2. H 3. va 4. Ka 5. Ki	<ol> <li>Liu, S. et al. (2000) J Cell Sci 113 ( Pt 20), 3563-71.</li> <li>Hood, J.D. and Cheresh, D.A. (2002) Nat Rev Cancer 2, 91-100.</li> <li>van der Flier, A. and Sonnenberg, A. (2001) Cell Tissue Res 305, 285-98.</li> <li>Kabir-Salmani, M. et al. (2004) Mol Hum Reprod 10, 91-7.</li> <li>Kim, S. et al. (2000) J Biol Chem 275, 33920-8.</li> <li>Miyamoto, S. et al. (1995) J Cell Biol 131, 791-805.</li> </ol>				

**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** 

WB: Western Blotting

**Cross-Reactivity Key** 

H: human M: mouse R: rat Hm: hamster Mk: monkey Vir: virus Mi: mink C: chicken Dm: D. melanogaster X: Xenopus Z: zebrafish B: bovine Dg: dog Pg: pig Sc: S. cerevisiae Ce: C. elegans Hr: horse GP: Guinea Pig Rab: rabbit All: all species expected

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