

#3750 Store at -20C

Integrin $\alpha 6$ Antibody


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

Applications:	Reactivity:	Sensitivity:	MW (kDa):	Source:	UniProt ID:	Entrez-Gene Id:
WB	H M R Mk	Endogenous	150, 125	Rabbit	#P23229	3655

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 / Sensitivity	Integrin $\alpha 6$ Antibody detects endogenous levels of total integrin $\alpha 6$ protein.	
Source / Purification	Polyclonal antibodies are produced by immunizing animals with a synthetic peptide corresponding residues surrounding Gly571 of human integrin $\alpha 6$. Antibodies are purified by 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 $\alpha 6$ is a 120 kDa protein with two splice variants, integrin $\alpha 6$, 6A and 6B (3), which function as receptors for laminins on the basal membrane to mediate cellular adhesion events (4-6). $\alpha 6$ integrins have been shown to play an important role in hematopoietic stem and progenitor cell homing to the bone marrow.	
Background References	1. Liu, S. et al. (2000) <i>J Cell Sci</i> 113 (Pt 20), 3563-71. 2. Hood, J.D. and Cheresch, D.A. (2002) <i>Nat Rev Cancer</i> 2, 91-100. 3. Hogervorst, F. et al. (1993) <i>J Cell Biol</i> 121, 179-91. 4. Sonnenberg, A. et al. (1990) <i>J Cell Biol</i> 110, 2145-55. 5. Sonnenberg, A. et al. (1993) <i>J Cell Sci</i> 106 (Pt 4), 1083-102. 6. Shaw, L.M. et al. (1990) <i>J Cell Biol</i> 110, 2167-74.	

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 BSA, 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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