

#4711 Store at -20°C

Integrin α V Antibody


Cell Signaling
TECHNOLOGY®

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

Applications: WB, IP	Reactivity: H R	Sensitivity: Endogenous	MW (kDa): 135, 140	Source: Rabbit	UniProt ID: #P06756	Entrez-Gene Id: 3685
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Product Usage Information	Application Western Blotting Immunoprecipitation	Dilution 1:1000 1:50
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 α V Antibodies detects endogenous levels of total integrin α V protein.	
Source / Purification	Polyclonal antibodies are produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Arg108 of human integrin α V. 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). Several α V subfamily members, including α V β 3, α V β 5, α V β 1, are highly expressed in active endothelial cells and cancer cells (3-6) where they play a critical role in angiogenesis and tumor metastasis (7-9). Therefore, interest has focused on α V integrin as a key therapeutic target in the treatment of cancer (10-12).	
Background References	<ol style="list-style-type: none"> 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. Koistinen, P. et al. (2004) <i>Int J Cancer</i> 112, 61-70. 4. Davidson, B. et al. (2003) <i>Gynecol Oncol</i> 90, 248-57. 5. Schwartz, E.A. et al. (1999) <i>Circ Res</i> 84, 315-22. 6. Suzuma, K. et al. (1998) <i>Invest Ophthalmol Vis Sci</i> 39, 1028-35. 7. Eliceiri, B.P. and Cheresch, D.A. (1999) <i>J Clin Invest</i> 103, 1227-30. 8. Friedlander, M. et al. (1995) <i>Science</i> 270, 1500-2. 9. Perruzzi, C.A. et al. (2003) <i>J Invest Dermatol</i> 120, 1100-9. 10. Strieth, S. et al. (2006) <i>Int J Cancer</i> 119, 423-31. 11. Kumar, C.C. (2003) <i>Curr Drug Targets</i> 4, 123-31. 12. Tucker, G.C. (2006) <i>Curr Oncol Rep</i> 8, 96-103. 	

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 IP: Immunoprecipitation
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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