## **Integrin β5 Antibody**



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or Research Use Only. N Applications:	lot for Use in Reactivity:	Sensitivity:	edures. MW (kDa):	Source:	UniProt ID:	Entrez-Gene Id:	
WB, IP, IF-IC	Н	Endogenous	90	Rabbit	#P18084	3693	
Product Usage Information	Ap	plication				Dilution	
	We	estern Blotting				1:1000	
	lmı	munoprecipitation				1:50	
	lmı	munofluorescence (	Immunocytochemis	stry)		1:200	
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 / Sensitiv	<b>rity</b> Inte	Integrin $\beta 5$ Antibody detects endogenous levels of total integrin $\beta 5$ protein.					
Source / Purification	resi	Polyclonal antibodies are produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Lys789 of human integrin $\beta$ 5 protein. Antibodies are purified by protein A and peptide affinity chromatography.					
Background	as v 24 k only sen: The fibro in th fact	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 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 $\alpha$ V $\beta$ 5 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). $\alpha$ V $\beta$ 5 integrin plays a major role in growth-factor-induced tumor angiogenesis, where cooperative signaling by the $\alpha$ V $\beta$ 5 integrin and growth factors regulates endothelial cell proliferation and survival (8).					
Background Referei	1. Hood, J.D. and Cheresh, D.A. (2002) <i>Nat. Rev. Cancer</i> 2, 91-100.						

- 2. Liu, S. et al. (2000) J. Cell Sci. 113, 3563-3571.
- 3. van der Flier, A. and Sonnenberg, A. (2001) Cell Tissue Res. 305, 285-298.
- 4. Pasqualini, R. et al. (1993) J. Cell Sci. 105, 101-111.
- 5. Plow, E.F. et al. (2000) J. Biol. Chem. 275, 21785-21788.
- 6. Sun, L.C. et al. (2007) Cancer Lett. 246, 157-166.
- 7. Enns, A. et al. (2005) Eur. J. Cancer 41, 1065-1072.
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**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 Cross-Reactivity Key**  WB: Western Blotting IP: Immunoprecipitation IF-IC: Immunofluorescence (Immunocytochemistry)

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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## 1/1/24, 10:24 AM **Limited Uses**

Integrin β5 Antibody (#4708) Datasheet Without Images Cell Signaling Technology

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