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-20C
#98204**Integrin $\alpha 5$ (D7B7G) Rabbit mAb**

Orders: 877-616-CELL (2355)
orders@cellsignal.com

Support: 877-678-TECH (8324)

Web: info@cellsignal.com
cellsignal.com

3 Trask Lane | Danvers | Massachusetts | 01923 | USA

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Applications:	Reactivity:	Sensitivity:	MW (kDa):	Source/Isotype:	UniProt ID:	Entrez-Gene Id:
W	H M R Hm Mk	Endogenous	150	Rabbit IgG	#P08648	3678

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, 50% glycerol and less than 0.02% sodium azide. Store at -20°C . Do not aliquot the antibody.

Specificity/Sensitivity

Integrin $\alpha 5$ (D7B7G) Rabbit mAb recognizes endogenous levels of total Integrin $\alpha 5$ protein.

Source / Purification

Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Gly117 of human Integrin $\alpha 5$ protein.

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 $\alpha 5/\beta 1$ 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 References

1. Liu, S. et al. (2000) *J Cell Sci* 113 (Pt 20), 3563-71.
2. Hood, J.D. and Cheresch, D.A. (2002) *Nat Rev Cancer* 2, 91-100.
3. van der Flier, A. and Sonnenberg, A. (2001) *Cell Tissue Res* 305, 285-98.
4. Kabir-Salmani, M. et al. (2004) *Mol Hum Reprod* 10, 91-7.
5. Kim, S. et al. (2000) *J Biol Chem* 275, 33920-8.
6. Miyamoto, S. et al. (1995) *J Cell Biol* 131, 791-805.

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 **Hm:** Hamster **Mk:** Monkey

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