

Store at
-20°C
#60896**Integrin α V (D2N5H) Rabbit mAb**

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

Applications:	Reactivity:	Sensitivity:	MW (kDa):	Source/Isotype:	UniProt ID:	Entrez-Gene Id:
W, IF-IC	H M R Mk	Endogenous	140, 135	Rabbit IgG	#P06756	3685

Product Usage Information**Application**

Western Blotting
Immunofluorescence (Immunocytochemistry)

Dilution

1:1000
1:50

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 α V (D2N5H) Rabbit mAb recognizes endogenous levels of total Integrin α V.

Source / Purification

Monoclonal antibody is produced by immunizing animals with recombinant protein specific to the central region of human integrin α V 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). 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

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. Koistinen, P. et al. (2004) *Int J Cancer* 112, 61-70.
4. Davidson, B. et al. (2003) *Gynecol Oncol* 90, 248-57.
5. Schwartz, E.A. et al. (1999) *Circ Res* 84, 315-22.
6. Suzuma, K. et al. (1998) *Invest Ophthalmol Vis Sci* 39, 1028-35.
7. Eliceiri, B.P. and Cheresch, D.A. (1999) *J Clin Invest* 103, 1227-30.
8. Friedlander, M. et al. (1995) *Science* 270, 1500-2.
9. Perruzzi, C.A. et al. (2003) *J Invest Dermatol* 120, 1100-9.
10. Strieth, S. et al. (2006) *Int J Cancer* 119, 423-31.
11. Kumar, C.C. (2003) *Curr Drug Targets* 4, 123-31.
12. Tucker, G.C. (2006) *Curr Oncol Rep* 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 BSA, 1X TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.

Applications Key

W: Western Blotting **IF-IC:** Immunofluorescence (Immunocytochemistry)

Cross-Reactivity Key

H: Human **M:** Mouse **R:** Rat **Mk:** Monkey

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