

# Integrin $\alpha 6$ Antibody

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**For Research Use Only. Not For Use In Diagnostic Procedures.**

Applications	Species Cross-Reactivity*	Molecular Wt.	Source
W Endogenous	H, M, R, Mk	150,125 kDa	Rabbit**

**Background:** 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 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).

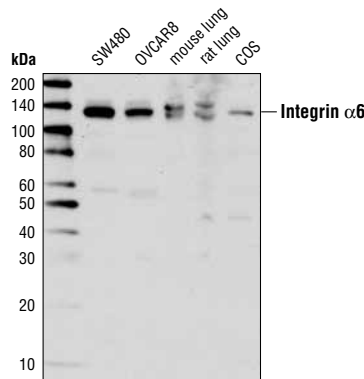
Integrin  $\alpha 6$  is a 120 kDa protein with two splice variants, integrin  $\alpha 6$ , 6A and 6B (3), which function as receptors for laminins on the basal membrane to mediate cellular adhesion events (4-6).  $\alpha 6$  integrins have been shown to play an important role in hematopoietic stem and progenitor cell homing to the bone marrow.

**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 References:

- (1) Liu, S. et al. (2000) *J Cell Sci* 113 ( Pt 20), 3563–71.
- (2) Hood, J.D. and Cheresh, D.A. (2002) *Nat Rev Cancer* 2, 91–100.
- (3) Hogervorst, F. et al. (1993) *J Cell Biol* 121, 179–91.
- (4) Sonnenberg, A. et al. (1990) *J Cell Biol* 110, 2145–55.
- (5) Sonnenberg, A. et al. (1993) *J Cell Sci* 106 ( Pt 4), 1083–102.
- (6) Shaw, L.M. et al. (1990) *J Cell Biol* 110, 2167–74.



Western blot analysis of extracts from various cell lines and tissues using Integrin  $\alpha 6$  Antibody.

Entrez-Gene ID #3655  
Swiss-Prot Acc. #P23229

**Storage:** Supplied in 10 mM HEPES (pH 7.5), 150 mM NaCl, 100  $\mu$ g/ml BSA and 50% glycerol. Store at -20°C. Do not aliquot the antibody.

\*Species cross-reactivity is determined by western blot.

\*\*Anti-rabbit secondary antibodies must be used to detect this antibody.

#### Recommended Antibody Dilutions:

Western blotting 1:1000

For application specific protocols please see the web page for this product at [www.cellsignal.com](http://www.cellsignal.com).

Please visit [www.cellsignal.com](http://www.cellsignal.com) for a complete listing of recommended companion products.

**IMPORTANT: For western blots, incubate membrane with diluted antibody in 5% w/v BSA, 1X TBS, 0.1% Tween-20 at 4°C with gentle shaking, overnight.**

**Applications Key:** W—Western IP—Immunoprecipitation IHC—Immunohistochemistry ChIP—Chromatin Immunoprecipitation IF—Immunofluorescence F—Flow cytometry E-P—ELISA-Peptide  
**Species Cross-Reactivity Key:** H—human M—mouse R—rat Hm—hamster Mk—monkey 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 All—all species expected Species enclosed in parentheses are predicted to react based on 100% homology.