

#3750 Store at -20°C

Integrin α6 Antibody



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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 | H M R Mk | Endogenous | 150, 125 | Rabbit | #P23229 | 3655 |

Product Usage Information

Application

Western Blotting

Dilution

1:1000

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 α6 Antibody detects endogenous levels of total integrin α6 protein.

Source / Purification

Polyclonal antibodies are produced by immunizing animals with a synthetic peptide corresponding residues surrounding Gly571 of human integrin α6. 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).

Integrin α6 is a 120 kDa protein with two splice variants, integrin α6, 6A and 6B (3), which function as receptors for laminins on the basal membrane to mediate cellular adhesion events (4-6). α6 integrins have been shown to play an important role in hematopoietic stem and progenitor cell homing to the bone marrow.

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. 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.

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

Cross-Reactivity Key

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

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