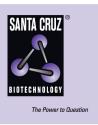
## SANTA CRUZ BIOTECHNOLOGY, INC.

# Integrin β3 (H-96): sc-14009



### BACKGROUND

Integrins are heterodimers composed of noncovalently associated transmembrane  $\alpha$  and  $\beta$  subunits. The 16  $\alpha$  and 8  $\beta$  subunits heterodimerize to produce more than 20 different receptors. Most integrin receptors bind ligands that are components of the extracellular matrix, including fibronectin, collagen and vitronectin. Certain integrins can also bind to soluble ligands such as fibrinogen, or to counterreceptors on adjacent cells such as the intracellular adhesion molecules (ICAMs), leading to adgregation of cells. Ligands serve to cross-link or cluster integrins by binding to adjacent integrin receptors; both receptor clustering and ligand occupancy are necessary for the activation of integrin-mediated responses. In addition to mediating cell adhesion and cytoskeletal organization, integrins function as signaling receptors. Signals transduced by integrins play a role in many biological processes, including cell growth, differentiation, migration and apoptosis.

#### CHROMOSOMAL LOCATION

Genetic locus: ITGB3 (human) mapping to 17q21.32; Itgb3 (mouse) mapping to 11 E1.

#### SOURCE

Integrin  $\beta$ 3 (H-96) is a rabbit polyclonal antibody raised against amino acids 635-730 mapping near the C-terminus of Integrin  $\beta$ 3 of human origin.

#### PRODUCT

Each vial contains 200  $\mu g$  IgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

#### **APPLICATIONS**

Integrin  $\beta$ 3 (H-96) is recommended for detection of Integrin  $\beta$ 3 of mouse, rat, human and *Xenopus laevis* origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunoprecipitation [1-2 µg per 100-500 µg of total protein (1 ml of cell lysate)], immunofluorescence (starting dilution 1:50, dilution range 1:50-1:500) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

Integrin  $\beta$ 3 (H-96) is also recommended for detection of Integrin  $\beta$ 3 in additional species, including equine, canine, bovine and porcine.

Suitable for use as control antibody for Integrin  $\beta$ 3 siRNA (h): sc-29375, Integrin  $\beta$ 3 siRNA (m): sc-35677, Integrin  $\beta$ 3 siRNA (r): sc-63292, Integrin  $\beta$ 3 shRNA Plasmid (h): sc-29375-SH, Integrin  $\beta$ 3 shRNA Plasmid (m): sc-35677-SH, Integrin  $\beta$ 3 shRNA Plasmid (r): sc-63292-SH, Integrin  $\beta$ 3 shRNA (h) Lentiviral Particles: sc-29375-V, Integrin  $\beta$ 3 shRNA (m) Lentiviral Particles: sc-35677-V and Integrin  $\beta$ 3 shRNA (r) Lentiviral Particles: sc-63292-V.

Molecular Weight of Integrin  $\beta$ 3: 125 kDa.

Positive Controls: human platelet whole cell lysate: sc-363773 or MDA-MB-231 cell lysate: sc-2232.

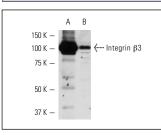
#### **STORAGE**

Store at 4° C, \*\*D0 NOT FREEZE\*\*. Stable for one year from the date of shipment. Non-hazardous. No MSDS required.

#### **RESEARCH USE**

For research use only, not for use in diagnostic procedures.

#### DATA



Integrin  $\beta$ 3 (H-96): sc-14009. Western blot analysis of Integrin  $\beta$ 3 expression in human platelets (**A**) and MDA-MB-231 whole cell lysate (**B**).

#### SELECT PRODUCT CITATIONS

- Strizzi, L., et al. 2004. Epithelial mesenchymal transition is a characteristic of hyperplasias and tumors in mammary gland from MMTV-Cripto-1 transgenic mice. J. Cell. Physiol. 201: 266-276.
- 2. Kaneko, Y., et al. 2011.  $\beta$ 1 and  $\beta$ 3 integrins disassemble from basal focal adhesions and  $\beta$ 3 integrin is later localised to the apical plasma membrane of rat uterine luminal epithelial cells at the time of implantation. Reprod. Fertil. Dev. 23: 481-495.
- Mouguelar, V.S., et al. 2011. The integrin-binding motif RGDS induces protein tyrosine phosphorylation without activation in Bufo arenarum (Amphibia) oocytes. Reproduction 141: 581-593.
- Krautkrämer, E., et al. 2011. Pathogenic old world hantaviruses infect renal glomerular and tubular cells and induce disassembling of cell-to-cell contacts. J. Virol. 85: 9811-9823.
- 5. Veron, D., et al. 2012. Acute podocyte vascular endothelial growth factor (VEGF-A) knockdown disrupts  $\alpha V\beta 3$  integrin signaling in the glomerulus. PLoS ONE 7: e40589.
- Di Vito, C., et al. 2012. The phytoestrogen 8-prenylnaringenin inhibits agonist-dependent activation of human platelets. Biochim. Biophys. Acta 1820: 1724-1733.
- Bertoni, A., et al. 2012. Dehydroepiandrosterone-sulfate inhibits thrombininduced platelet aggregation. Steroids 77: 260-268.
- Nagai, Y., et al. 2013. p130Cas plays important roles in osteoclastic bone resorption. J. Bone Miner. Res. doi: 10.



Try Integrin  $\beta$ 3 (D-11): sc-365679 or Integrin  $\beta$ 3

(B-7): sc-46655, our highly recommended monoclonal alternatives to Integrin  $\beta$ 3 (H-96). Also, for AC, HRP, FITC, PE, Alexa Fluor<sup>®</sup> 488 and Alexa Fluor<sup>®</sup> 647 conjugates, see Integrin  $\beta$ 3 (D-11): sc-365679.