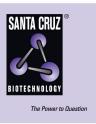
SANTA CRUZ BIOTECHNOLOGY, INC.

Integrin α6 (H-87): sc-10730



BACKGROUND

Integrins are heterodimers composed of non-covalently associated transmembrane α and β subunits. The 16 α and 8 β 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 aggregation 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: ITGA6 (human) mapping to 2q31.1; Itga6 (mouse) mapping to 2 C2.

SOURCE

Integrin $\alpha 6$ (H-87) is a rabbit polyclonal antibody raised against amino acids 868-954 mapping near the C-terminus of Integrin $\alpha 6$ of human origin.

PRODUCT

Each vial contains 200 μg lgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

APPLICATIONS

Integrin α 6 (H-87) is recommended for detection of Integrin α 6 of mouse, rat and human 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), immunohistochemistry (including paraffin-embedded sections) (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 α 6 (H-87) is also recommended for detection of Integrin α 6 in additional species, including equine.

Suitable for use as control antibody for Integrin α 6 siRNA (h): sc-43129, Integrin α 6 siRNA (m): sc-43130, Integrin α 6 shRNA Plasmid (h): sc-43129-SH, Integrin α 6 shRNA Plasmid (m): sc-43130-SH, Integrin α 6 shRNA (h) Lentiviral Particles: sc-43129-V and Integrin α 6 shRNA (m) Lentiviral Particles: sc-43130-V.

Molecular Weight of Integrin α 6 proform: 140 kDa.

Molecular Weight of Integrin α 6 heavy chain: 120 kDa.

Positive Controls: DU 145 cell lysate: sc-2268, Hep G2 cell lysate: sc-2227 or F9 cell lysate: sc-2245.

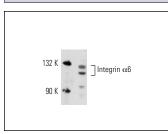
STORAGE

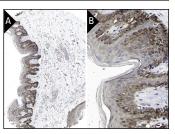
Store at 4° C, **D0 NOT FREEZE**. Stable for one year from the date of shipment. Non-hazardous. No MSDS required.

RESEARCH USE

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

DATA





Integrin α 6 (H-87): sc-10730. Western blot analysis of Integrin α 6 expression in F9 whole cell lysate.

Integrin $\alpha 6$ (H-87): sc-10730. Immunoperoxidase staining of formalin fixed, paraffin-embedded human skin tissue showing cytoplasmic and membrane staining of epider-mal and adnexal cells at low (**A**) and high (**B**) magnifi-cations. Kindly provided by The Swedish Human Protein Atlas (HPA) program.

SELECT PRODUCT CITATIONS

- 1. Wang, R., et al. 2005. Role for β 1 Integrin and its associated α 3, α 5, and α 6 subunits in development of the human fetal pancreas. Diabetes 54: 2080-2089.
- Liu, J., et al. 2005. Changes in integrin expression during adipocyte differentiation. Cell Metab. 2: 165-177.
- 3. Yashpal, N.K., et al. 2005. Expression of β 1 integrin receptors during rat pancreas development—sites and dynamics. Endocrinology 146: 1798-1807.
- Huang, Y., et al. 2008. Midkine promotes tetraspanin-integrin interaction and induces FAK-Stat1α pathway contributing to migration/invasiveness of human head and neck squamous cell carcinoma cells. Biochem. Biophys. Res. Commun. 377: 474-478.
- Hill, J.J., et al. 2009. Glycoproteomic analysis of two mouse mammary cell lines during transforming growth factor (TGF)-β induced epithelial to mesenchymal transition. Proteome Sci. 7: 2.
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- 8. Voss, M.A., et al. 2011. Tetraspanin CD151 is a novel prognostic marker in poor outcome endometrial cancer. Br. J. Cancer 104: 1611-1618.



Try Integrin α 6 (F-6): sc-374057 or Integrin α 6 (541A11): sc-47772, our highly recommended monoclonal alternatives to Integrin α 6 (H-87). Also, for AC, HRP, FITC, PE, Alexa Fluor® 488 and Alexa Fluor® 647 conjugates, see Integrin α 6 (F-6): sc-374057.