Integrin α4 (H-210): sc-14008

**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: ITGA4 (human) mapping to 2q31.3; Itga4 (mouse) mapping to 2q31.3; Itga4 (mouse) mapping near the C-terminus of Integrin α4 of human origin.

**SOURCE**

Integrin α4 (H-210) is a rabbit polyclonal antibody raised against amino acids 796-1005 mapping near the C-terminus of Integrin α4 of human origin.

**PRODUCT**

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

**APPLICATIONS**

Integrin α4 (H-210) is recommended for detection of Integrin α4 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 α4 (H-210) is also recommended for detection of Integrin α4 in additional species, including canine and porcine.

Suitable for use as control antibody for Integrin α4 siRNA (h): sc-35685, Integrin α4 siRNA (m): sc-35685, Integrin α4 shRNA Plasmid (h): sc-35685-SH, Integrin α4 shRNA Plasmid (m): sc-35686-SH, Integrin α4 shRNA (h) Lentiviral Particles: sc-35685-V and Integrin α4 shRNA (m) Lentiviral Particles: sc-35686-V.

Molecular Weight of Integrin α4: 150 kDa.

Positive Controls: Integrin α4 (h): 293T Lysate: sc-128889, Jurkat whole cell lysate: sc-2204 or HeLa whole cell lysate: sc-2200.

**RESEARCH USE**

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

**STORAGE**

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

**DATA**

**SELECT PRODUCT CITATIONS**


**PROTOCOLS**

See our web site at www.scbt.com or our catalog for detailed protocols and support products.