Integrin α L (C-17): sc-6608



The Power to Question

BACKGROUND

Integrins are heterodimers composed of noncovalently associated transmembrane α and β subunits. The 16α and 8β 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.

REFERENCES

- 1. Hynes, R.O. 1992. Integrins: versatility, modulation, and signaling in cell adhesion. Cell 69: 11-25.
- 2. Miyamoto, S., et al. 1995. Synergistic roles for receptor occupancy and aggregation in Integrin transmembrane function. Science 267: 883-885.
- Clark, E.A. and Brugge, J.S. 1995. Integrins and signal transduction pathways: the road taken. Science 268: 233-239.

CHROMOSOMAL LOCATION

Genetic locus: ITGAL (human) mapping to 16p11.2.

SOURCE

Integrin αL (C-17) is an affinity purified goat polyclonal antibody raised against a peptide mapping at the C-terminus of Integrin αL 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.

Blocking peptide available for competition studies, sc-6608 P, (100 μg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

Integrin α L (C-17) is recommended for detection of Integrin α L of human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunoprecipitation [1-2 μ g per 100-500 μ g 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).

Suitable for use as control antibody for Integrin α L siRNA (h): sc-35691, Integrin α L shRNA Plasmid (h): sc-35691-SH and Integrin α L shRNA (h) Lentiviral Particles: sc-35691-V.

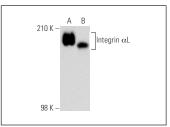
Molecular Weight of Integrin α L: 180 kDa.

Positive Controls: THP-1 cell cysate: sc-2238, Jurkat whole cell lysate: sc-2204 or CCRF-CEM cell lysate: sc-2225.

RECOMMENDED SECONDARY REAGENTS

To ensure optimal results, the following support (secondary) reagents are recommended: 1) Western Blotting: use donkey anti-goat IgG-HRP: sc-2020 (dilution range: 1:2000-1:100,000) or Cruz Marker™ compatible donkey anti-goat IgG-HRP: sc-2033 (dilution range: 1:2000-1:5000), Cruz Marker™ Molecular Weight Standards: sc-2035, TBS Blotto A Blocking Reagent: sc-2333 and Western Blotting Luminol Reagent: sc-2048. 2) Immunoprecipitation: use Protein A/G PLUS-Agarose: sc-2003 (0.5 ml agarose/ 2.0 ml). 3) Immuno-fluorescence: use donkey anti-goat IgG-FITC: sc-2024 (dilution range: 1:100-1:400) or donkey anti-goat IgG-TR: sc-2783 (dilution range: 1:100-1:400) with UltraCruz™ Mounting Medium: sc-24941.

DATA



Integrin αL (C-17): sc-6608. Western blot analysis of Integrin αL expression in THP-1 (**A**) and CCRF-CEM (**B**)

SELECT PRODUCT CITATIONS

- 1. Ostermann, G., et al. 2002. JAM-1 is a ligand of the β2 Integrin LFA-1 involved in transendothelial migration of leukocytes. Nat. Immunol. 3: 151-158.
- Giannoni, E., et al. 2003. Lymphocyte function-associated antigen-1mediated T cell adhesion is impaired by low molecular weight phosphotyrosine phosphatase-dependent inhibition of FAK activity. J. Biol. Chem. 278: 36763-36776.
- 3. Yang, C.R., et al. 2005. Decoy receptor 3 increases monocyte adhesion to endothelial cells via NFκB-dependent up-regulation of intercellular adhesion molecule-1, VCAM-1, and IL-8 expression. J. Immunol. 174: 1647-1656.
- 4. Yamamoto, H., et al. 2008. Induction of cell adhesion by galectin-8 and its target molecules in Jurkat T-cells. J. Biochem. 143: 311-324.

STORAGE

Store at 4° C, **DO 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.



Try Integrin αL (E-1): sc-374172 or Integrin αL (C-11): sc-373938, our highly recommended monoclonal alternatives to Integrin αL (C-17).