anti-Integrin β1 (CD29)

Cat #: HM1196
Mouse monoclonal IgG
0.2 μg/μl, store at 4 °C

For research use only

BACKGROUND

Integrin β1 or CD29 belongs to the integrin family of cell adhesion receptors. Integrins are heterodimeric proteins made up of alpha and beta subunits. At least 18 alpha and 8 beta subunits have been described in mammals. Integrins are involved in cell adhesion and recognition in a variety of processes including embryogenesis, hemostasis, tissue repair, immune response and metatastatic diffusion of tumor cells. Integrin β1 was initially characterized independently as protein gpIIa appearing on platelets, as the common Beta subunit of the very late activation antigen (VLA), and as a component of various protein complexes binding to extracellular matrix proteins. With the exception of red blood cells and possible weak expression on granulocytes, Integrin β1 is expressed nearly all cell and tissue types.

SPECIFICITY

This antibody specifically recognizes Integin beta 1(CD29) of human and mouse origin.

The antibody can be used in Western blotting, immunoprecipitation and immunstaining.

IMMUNOGEN

Full-length recombinant human CD29 protein.

STORAGE

This antibody is stable for 12 months when stored at 2-8°C.

REFERENCES

1. Hynes, R.O. 1992. Integrins: versatility, modulation, and signaling in cell adhesion. Cell 69: 11-25. 2. Clark, E.A. and Brugge, J.S. 1995. Integrins and signal transduction pathways: the road taken. Science 268: 233-239.
2. Miyamoto, S., Akiyama, S.K., and Yamada, K.M. 1995. Synergistic roles for receptor occupancy and aggregation in integrin transmembrane function. Science 267: 883-885.
3. Sheppard, D. 1996. Epithelial integrins. BioEssays 18: 655-660.
4. Juliano, R. 1996. Cooperation between soluble factors and integrin-mediated cell anchorage in the control of cell growth and differentiation. BioEssays 18: 911-917.
5. Klein,S., de Fougerolles,A.R., Blaikie,P., Khan,L., Pepe,A., Green,C.D., Koteliansky,V. and Giancotti,F.G. (2002) Alpha 5 beta 1 integrin activates an NF-kappa B-dependent program of gene expression important for angiogenesis and inflammation. Mol. Cell. Biol. 22, 5912-5922.
6. Seales,E.C., Jurado,G.A., Singhal,A. and Bellis,S.L. (2003) Ras oncogene directs expression of a differentially sialylated, functionally altered beta1 integrin. Oncogene 22, 7137-7145.

PRODUCTS FROM HYPROMATRIX, INC.

A. AntibodyArray™s:

1. Signal Transduction AntibodyArray™
   Catalog Number HM3000
2. Apoptosis AntibodyArray™
   Catalog Number HM4000
3. Cell Cycle AntibodyArray™
   Catalog Number HM5000

B. Staining AntibodyArray™s

1. Staining AntibodyArray™ I
   Catalog Number HM8100
2. AntibodyArray Staining Apparatus
   Catalog Number HM8000

C. Antibodies

1. HRP-conjugated antibodies

- anti-phosphotyrosine
  Catalog Number HM2040
- anti-phosphoserine
  Catalog Number HM2070
- anti-phosphothreonine
  Catalog Number HM2090

and more…

2. Primary antibodies

Hypromatrix offers a variety of high quality antibodies. For a complete list of antibodies and their specificities, please visit our web site at www.hypromatrix.com.

CONTACT

Hypromatrix, Inc.
100 Barber Avenue
Worcester, MA 01606
USA

Tel: 508-856-7900
Fax: 508-302-0748
Email: contact@hypromatrix.com
Web: www.hypromatrix.com