Anti-CD29 [8E3]

Catalogue number: 152488
Sub-type: Primary antibody
Images:

Contributor

Inventor: Martin Humphries
Institute: University of Manchester
Images:

Tool details

***FOR RESEARCH USE ONLY**

Name: Anti-CD29 [8E3]

Alternate name: Integrin Subunit Beta 1; Glycoprotein Iia; MSK12; GPIIA; FNRB; MDF2; Very Late Activation Protein; Beta Polypeptide; Fibronectin Receptor Subunit Beta; Integrin VLA-4 Beta Subunit; CD29 Antigen; VLA-BETA; CD29; VLAB

Class: Monoclonal
Conjugate: Unconjugated
Description: Integrin beta1 (CD29) is a transmembrane glycoprotein that forms noncovalent complexes with various alpha integrin subunits to form the functional receptors that bind to specific extracellular matrix proteins. Integrin receptors 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. Interactions between integrins and extracellular matrix lead to activation of signal transduction pathways and regulation of gene expression. Phosphorylation of threonines 788 and 789 on integrin beta1 receptor may play a key role in cell-cycle dependent regulation.
Purpose:
Parental cell:
Organism:
Tissue:
Model:
Gender:
Isotype: IgG1 kappa
Reactivity: Human
Selectivity:
Host: Mouse
Immunogen: Purified Integrin Beta1 from HT-1080 cells.
Immunogen UNIPROT ID:

Sequence:
Growth properties:
Production details:
Formulation:
Recommended controls: HT-1080 cell lysate
Bacterial resistance:
Selectable markers:
Additional notes:

Target details

Target: Integrin beta-1 (CD29), VLA-4 subunit beta

Target alternate names:

Target background: Integrin beta1 (CD29) is a transmembrane glycoprotein that forms noncovalent complexes with various alpha integrin subunits to form the Fn receptors that bind to specific extracellular matrix proteins. Integrin receptors 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. Interactions between integrins and extracellular matrix lead to activation of signal transduction pathways and regulation of gene expression. Phosphorylation of threonines 788 and 789 on integrin beta1 receptor may play a key role in cell-cycle dependent regulation.

Molecular weight:

Ic50:

Applications

Application: ELISA ; IHC ; IP ; WB
Application notes:

Handling

Format: Liquid
Concentration: 1 mg/ml
Passage number:
Growth medium:
Temperature:
Atmosphere:
Volume:
Storage medium:
Storage buffer: PBS with 0.02% azide
Storage conditions:

-15° C to -25° C
Shipping conditions: Shipping at 4° C

Related tools

Related tools:

References

References: Valdembri et al. 2009. PLoS Biol. 7(1):e25. PMID: 19175293. ; Neuropilin-1/GIPC1 signaling regulates alpha5beta1 integrin traffic and function in endothelial cells. ; Clark et al. 2005. J Cell Sci. 118(Pt 2):291-300. PMID: 15615773. ; A specific alpha5beta1-integrin conformation promotes directional integrin translocation and fibronectin matrix formation.