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Human Integrin beta 1/CD29 antibody

Catalog Number: ACD0823

PRODUCT INFORMATION

Catalog number
ACD0823

Clone No.
k2D5

Product type
Monoclonal Antibody

UnitProt No.
P05556

NCBI Accession No.
NP_002202

Alternative Names
Integrin beta 1, Integrin beta 1, CD29, FNRB, MDF2, VLAB, GPIIA, MSK12, Fibronectin receptor subunit beta, Glycoprotein Iia, GPIIA, VLA-4 subunit bet

PRODUCT SPECIFICATION

Antibody Host
Mouse

Reacts With
Human

Concentration
1mg/ml (determined by BCA assay)

Formulation
Liquid in. Phosphate-Buffered Saline (pH 7.4) with 0.02% Sodium Azide, 10% glycerol

Immunogen
Recombinant human CD29 (34-141aa) purified from E. coli

Isotype
IgG1 kappa

Purification Note
By protein-G affinity chromatography

Application
ELISA, ICC/IF, FACS

Usage
The antibody has been tested by ELISA, ICC/IF and FACS analysis to assure specificity and reactivity. Since application varies, however, each investigation should be titrated by the reagent to obtain optimal results.

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Storage

Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

BACKGROUND

Description

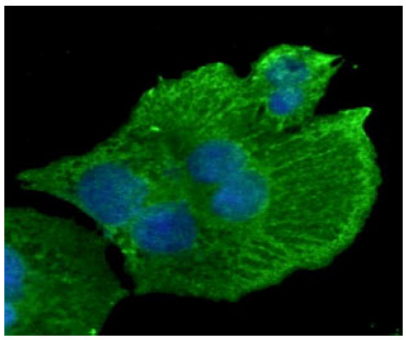
CD29, also known as Integrin beta 1, is the beta subunit found in the integrin families, forming a heterodimer integrin receptor through non-covalent bonding with various integrin alpha subunits. Integrin receptors are involved in the regulation of a variety of important biological functions, including embryonic development, wound repair, hemostasis, and prevention of programmed cell death. Interaction between integrins and the extracellular matrix lead to activation of signal transduction pathways and regulation of gene expression.

General References

He L, et al., (2003) Blood 102(10):3652-3657.
Arrequi C, et al., (2000) J cell Biol 149(6):1263-1274.
Martin-padura I, et al., (1994) J Biol Chem 269:6124-6132.

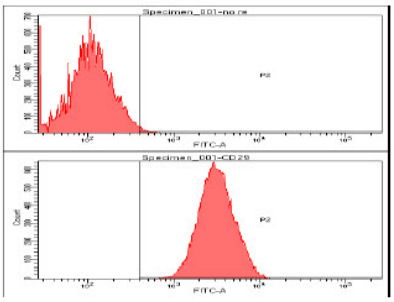
DATA

Immunocytochemistry/Immunofluorescence (ICC/IF)



ICC/IF analysis of CD29 in HepG2 cells. The cell was stained with ACD0823 (1:100). The secondary antibody (green) was used Alexa Fluor 488. DAPI was stained the cell nucleus (blue).

Flow cytometry (FACS)



Flow cytometry analysis of CD29 in Hep3B cell line, staining at 2-5ug for 1x10^6cells. The secondary antibody used goat anti-mouse IgG Alexa fluor 488 conjugate.