

# Human Integrin beta 1/CD29 antibody

Catalog Number: ACD0823

## PRODUCT INFORMATION

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**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 lia, GPIIA, VLA-4 subunit bet

## PRODUCT SPECIFICATION

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**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.

# Human Integrin beta 1/CD29 antibody

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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

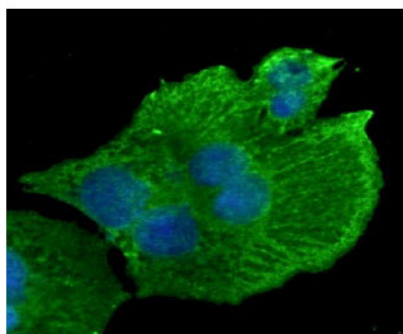
CD29, also known as Integrin beta 1, is the beta subunit found in the integrin families, forming a heterodimer integrin receptor through non-covalent bonding with various integrin alpha subunits. Integrin receptors are involved in the regulation of a variety of important biological functions, including 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.

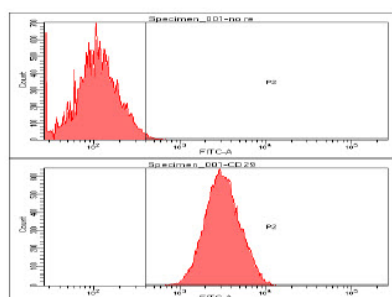
## DATA

### 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  $1 \times 10^6$  cells. The secondary antibody used goat anti-mouse IgG Alexa fluor 488 conjugate.