

Monoclonal anti-human CD29 antibody (clone k2D5)

Mouse IgG₁, κ

Cat. No. IBACD0823

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

NCBI Accession No.: NP_002202

Isotype: Mouse IgG₁ heavy chain and κ light chain

Clone: Anti-human CD29 mAb, clone k2D5, is derived from hybridization of mouse F0 myeloma cells with spleen cells from BALB/c mice immunized with a recombinant human CD29 protein.

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.

Concentration: 1 mg/ml

Form: Liquid. In Phosphate-Buffered Saline (pH 7.4) with 0.02% Sodium Azide, 10% Glycerol

Storage: Can be stored at +4C. For long term storage, aliquot and store at -20C. Avoid repeated freezing and thawing cycles.

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

Application: ELISA, WB, ICC/IF, Flow cytometry

For research use only. This product is not intended or approved for human, diagnostics or veterinary use.



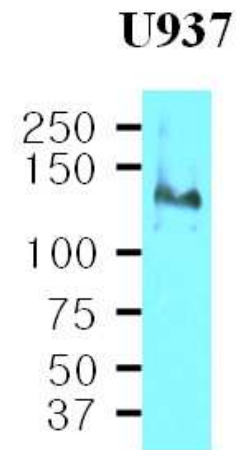
Manufactured for:

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Product information

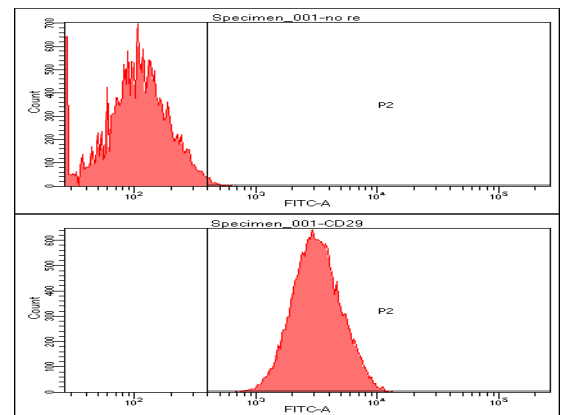
Western blot analysis

Cell lysates of U937(40ug) were resolved by SDS-PAGE, transferred to NC membrane and probed with anti-human CD29 (1:500). Proteins were visualized using a goat anti-mouse secondary antibody conjugated to HRP and an ECL detection system.



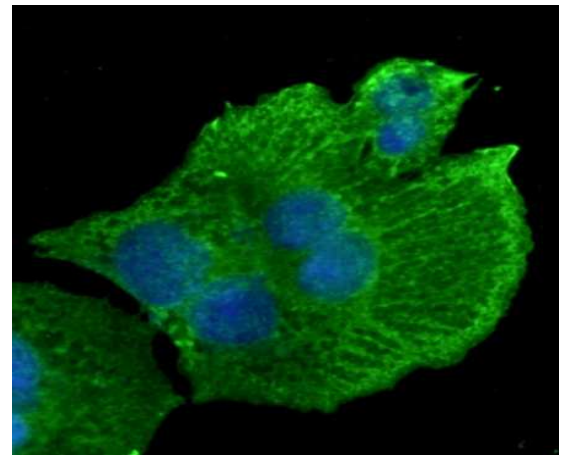
Flow cytometry

Flow cytometry analysis of CD29 in Hep3B cell line, staining at 2-5ug for 1×10^6 cells. The secondary antibody used goat anti-mouse IgG Alexa fluor 488 conjugate.



ICC/IF analysis

ICC/IF analysis of CD29 in HepG2 cells line, stained with DAPI (Blue) for nucleus staining and monoclonal anti-human CD29 antibody (1:100) with goat anti-mouse IgG-Alexa fluor 488 conjugate (Green).



- General references:** Gregory KE., et al. (2005) *J Biol Chem.* **280**: 27970-27980.
 Sampath TK., et al. (1990) *J Biol Chem.* **265**: 13198-13205.
 Godin RE., et al. (1998) *Development.* **125**: 3473-3482.
 Groppa J., et al. (2002) *Nature.* **420**: 636-642.

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