

Mouse anti-Human CD29 Monoclonal Antibody | anti-CD29 antibody

CD29 antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA48016	Mouse	Human	Flow Cytometry, Functional Assay, Immunofluorescence, Immunocytochemistry, Western Blot, ELISA

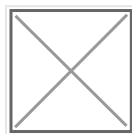
PRODUCT SYNONYMS

CD29; Monoclonal Antibody; CD29 antibody; Integrin beta 1 isoform 1a (fibronectin receptor; beta polypeptide); integrin beta 1 (fibronectin receptor; beta polypeptide; antigen CD29 includes MDF2; MSK12); FNBR; MSK12; MDF2; GPIIA; anti-CD29 antibody

PRODUCT SPECIFICATIONS

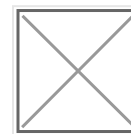
Host	Mouse
Reactivity	Human
Clonality	Monoclonal
Isotype	IgG1, k
Clone Number	k2D5
Purity/Purification	By protein-G affinity chromatography
Form/Format	Liquid. In phosphate-buffered saline (pH 7.4) with 0.02% Sodium Azide, 10% glycerol.
Concentration	1mg/ml (varies by lot)
Sequence Length	798
Applicable Applications for anti-CD29 antibody	FCM/FACS (Flow Cytometry), IF (Immunofluorescence), ICC (Immunocytochemistry), WB (Western Blot), ELISA
Antigen Species	Human
Immunogen	Recombinant human CD29 (34-141aa) purified from E. coli
Clone Note	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.
Preparation and Storage	Can be stored at 4 degree C. For long term storage, aliquot and store at -20 degree C. Avoid repeated freezing and thawing cycles.

IMAGES



IF (Immunofluorescence)

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).



WB (Western Blot)

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.

ADDITIONAL INFORMATION

Related Product Information for anti-CD29 antibody	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.
Product Categories/Family for anti-CD29 antibody	Immunology
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

NCBI AND UNIPROT INFORMATION

NCBI GI #	19743813
NCBI GeneID	3688
NCBI Accession #	NP_002202
NCBI GenBank Nucleotide #	NM_002211.3
UniProt Accession #	P05556; P78466; P78467; Q13089; Q13090; Q13091; Q13212; A8K6N2; D3DRX9; D3DRY3; D3DRY4; D3DRY5
Molecular Weight	88,884 Da
NCBI Official Full Name	integrin beta-1 isoform 1A
NCBI Official Synonym Full Names	integrin subunit beta 1
NCBI Official Symbol	ITGB1
NCBI Official Synonym Symbols	CD29; FNRB; MDF2; VLAB; GPIIA; MSK12; VLA-BETA
NCBI Protein Information	integrin beta-1
UniProt Protein Name	Integrin beta-1
UniProt Gene Name	ITGB1
UniProt Synonym Gene Names	FNRB; MDF2; MSK12; GPIIA

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.