

Product Name: KD-Validated Integrin β 1/CD29 Recombinant Rabbit Monoclonal Antibody
Catalog #: KVA00265

For research use only.

Summary

Description	KO&KD-Validated antibody
Host	Rabbit
Application	WB,FCM,ICC,IHC-P
Reactivity	Human
Conjugation	Unconjugated
Modification	Unmodified
Isotype	Rabbit IgG
Clonality	Rabbit mAb
Form	Liquid
Storage	Aliquot and store at -20°C (valid for 12 months). Avoid freeze/thaw cycles.
Shipping	Ice bags
Buffer	Supplied in PBS (pH 7.4) containing 50% glycerol, and 0.02% sodium azide.
Purification	Affinity purification

Application

Dilution Ratio	WB 1:1,000-1:5,000; FC 1:200-1:2,000; ICC 1:100-1:1,000; IHC-P 1:100-1:200
Molecular Weight	Calculated MW: 88.4kDa

Antigen Information

Gene Name	ITGB1
Alternative Names	GPIIA; MSK12; CD29; FNRB; MDF2; Integrin, Beta 1 (Fibronectin Receptor, Beta Polypeptide, Antigen CD29 Includes MDF2, MSK12); Glycoprotein IIa; Integrin Beta-1; Very Late Activation Protein, Beta Polypeptide; Fibronectin Receptor Subunit Beta; Integrin VLA-4 Beta Subunit; VLA-4 Subunit Beta; Integrin Beta 1; CD29 Antigen; VLA-BETA; VLAB
Gene ID	3688.0
SwissProt ID	P05556
Immunogen	A synthesized peptide derived from human integrin beta-1/CD29

Background

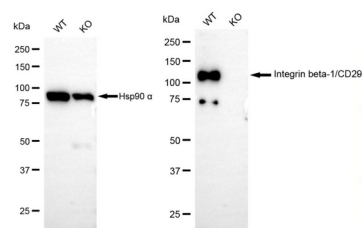
Integrins are heterodimeric proteins made up of alpha and beta subunits. At least 18 alpha and 8 beta subunits have been

described in mammals. Integrin family members are membrane receptors involved in cell adhesion and recognition in a variety of processes including embryogenesis, hemostasis, tissue repair, immune response and metastatic diffusion of tumor cells. This gene encodes a beta subunit. Multiple alternatively spliced transcript variants which encode different protein isoforms have been found for this gene. [provided by RefSeq, Jul 2008]

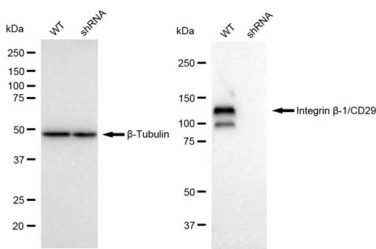
Research Area

Neuroscience, Microbiology, Signal Transduction, Stem Cells, Developmental Biology

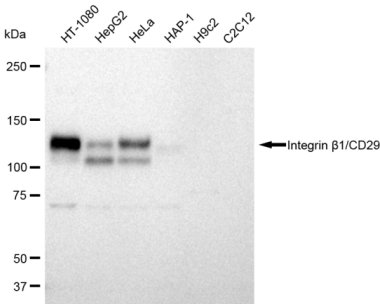
Image Data



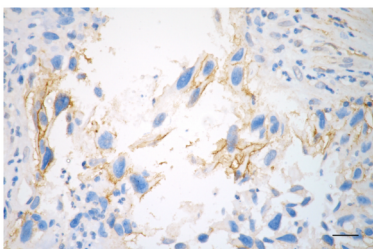
Western blotting analysis using Integrin beta-1/CD29 antibody (KVA00265). Integrin beta-1/CD29 expression in wild type (WT) and Integrin beta-1/CD29 knockout (KO) HeLa cells with 30 µg of Total cell lysates. Hsp90 α serves as a loading control. The blot was incubated with Integrin beta-1/CD29 antibody (KVA00265, 1:5,000) and HRP-conjugated goat anti rabbit secondary antibody (APS0635, 1:10,000) respectively.



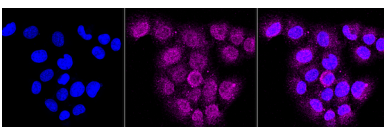
Western blotting analysis using Integrin beta-1/CD29 antibody (KVA00265). Integrin beta-1/CD29 expression in wild type (WT) and Integrin beta-1/CD29 knockdown (KD) HeLa cells with 30 µg of Total cell lysates. β-Tubulin serves as a loading control. The blot was incubated with Integrin beta-1/CD29 antibody (KVA00265, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody (APS0635, 1:10,000) respectively.



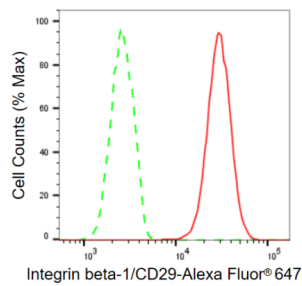
Western blotting analysis using Integrin β1/CD29 antibody (KVA00265). Total cell lysates (30 µg) from various cell lines were loaded and separated by SDS-PAGE. The blot was incubated with Integrin β1/CD29 antibody (KVA00265, 1:5,000) and HRP-conjugated goat anti rabbit secondary antibody (APS0635, 1:10,000) respectively.



Immunohistochemistry was performed on paraffin-embedded human bladder carcinoma using integrin beta-1/CD29 antibody (KVA00265, 1:200). Antigen retrieval was done in sodium citrate buffer (pH 6.0). DAB was used for detection, with hematoxylin counterstaining. Images were acquired using a Nikon Ci-L Plus microscope (40× objective). Scale bar: 25 µm.



Immunocytochemical staining of HT-1080 cells with Integrin beta-1/CD29 antibody (KVA00265, 1:1,000). Nuclei were stained blue with DAPI; Integrin beta-1/CD29 was stained magenta with Alexa Fluor® 647. Images were taken using Leica stellaris 5. Protein abundance based on laser Intensity and smart gain: Medium. Scale bar: 20 µm.



Flow cytometric analysis of Integrin beta-1/CD29 expression in HT-1080 cells using Integrin beta-1/CD29 antibody (KVA00265,1:2,000). Green, isotype control; red, Integrin beta-1/CD29.