[KD Validated] Anti-ITGB1 Rabbit mAb

Purified Recombinant Rabbit Monoclonal Antibody

Catalog # R020336

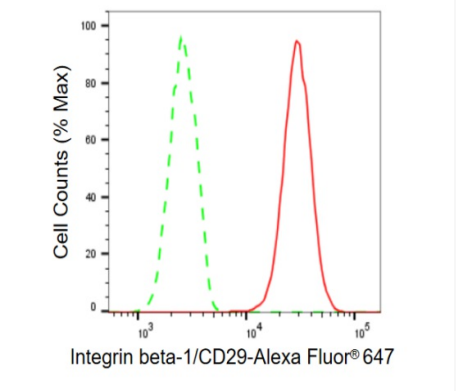
Product Information

Application	WB, FC, IF (Cell)/ICC, IHC-P/IF (Tissue-P)
Reactivity	Human
Dilution	WB 1:1,000~1:5,000; FC 1:200~1:2,000; IF 1:100~1:1,000; IHC-P 1:100~1:200
Host	Rabbit
Clonality	Monoclonal
Clone No.	32D38S60
Isotype	IgG
Label	Unconjugated
Immunogen	A synthesized peptide derived from human integrin beta-1/CD29
Format	Affinity purified monoclonal antibody supplied in PBS with 0.02% sodium azide and 50% glycerol, pH 7.3.
Storage	Shipped on wet ice. Store at -20°C. Stable for 12 months from date of receipt. Aliquoting is unnecessary for -20°C storage.
Precautions	[KD Validated] Anti-ITGB1 Rabbit mAb [32D38S60] is for research use only and not for use in diagnostic or therapeutic procedures.

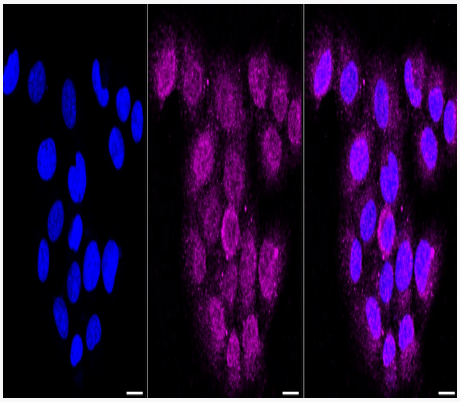
Protein Information

Synonyms	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.
Calculated MW	Calculated MW: 88 kDa, Observed MW: 115/135 kDa
Uniprot ID	P05556
Gene ID	3688
Background	Integrins are α/β heterodimeric cell surface receptors that play a pivotal role in cell adhesion and migration, as well as in growth and survival. The integrin family contains at least 18 α and 8 β subunits that form 24 known integrins with distinct tissue distribution and overlapping ligand specificities。

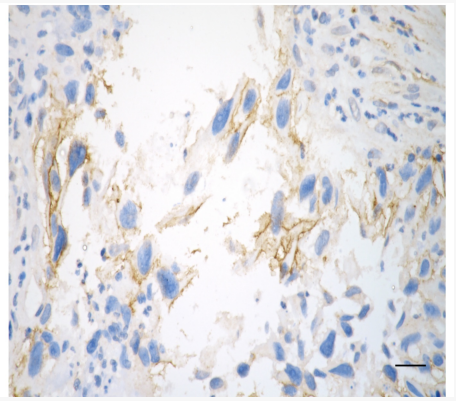
Validation Images



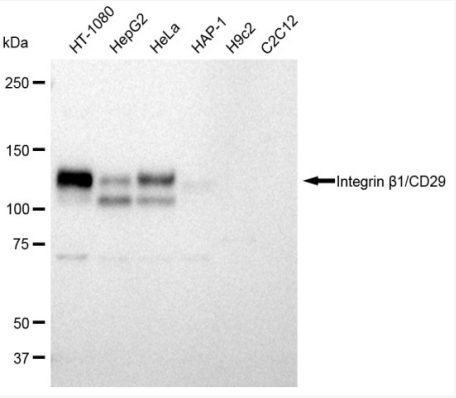
Flow cytometric analysis of Integrin beta-1/CD29 expression in HT-1080 cells using Integrin beta-1/CD29 antibody (R020336,1:2,000). Green, isotype control; red, Integrin beta-1/CD29.



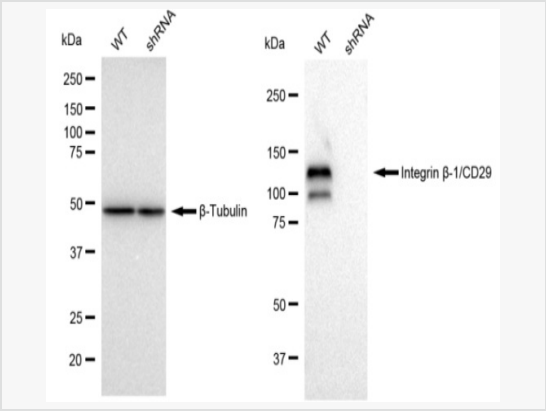
Immunocytochemical staining of HT-1080 cells with Integrin beta-1/CD29 antibody (R020336, 1:1,000). Nuclei were stained blue with DAPI; Integrin beta-1/CD29 was stained magenta with Alexa Fluor® 647. Images were taken using Leica stellaris 5. Protein abundance based on laser Intensity and smart gain: Medium. Scale bar: 20 µm.



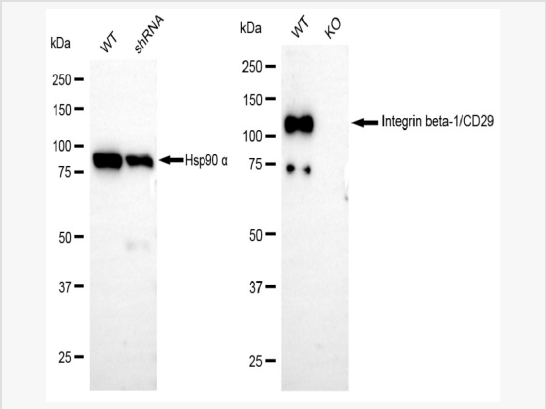
Immunohistochemistry was performed on paraffin-embedded human bladder carcinoma using integrin beta-1/CD29 antibody (R020336, 1:200). Antigen retrieval was done in sodium citrate buffer (pH 6.0). DAB was used for detection, with hematoxylin counterstaining. Images were acquired using a Nikon Ci-L Plus microscope (40× objective). Scale bar: 25 µm.



Western blotting analysis using Integrin β1/CD29 antibody (R020336). 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 (R020336,1:5,000) and HRP-conjugated goat anti rabbit secondary antibody (1:20,000) respectively. Image was developed using ECL Substrate Kit.



Western blotting analysis using Integrin beta-1/CD29 antibody (R020336). Integrin beta-1/CD29 expression in wild type (WT) and Integrin beta-1/CD29 shRNA 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 (R020336,1:5,000) and HRP-conjugated goat anti rabbit secondary antibody (1:50,000) respectively. Image was developed using ECL Substrate Kit.



Western blotting analysis using Integrin beta-1/CD29 antibody (R020336). 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 (R020336, 1:5,000) and HRP-conjugated goat anti rabbit secondary antibody (1:50,000) respectively. Image was developed using ECL Substrate Kit.