

Product Name: KD-Validated Integrin Alpha V Recombinant Rabbit Monoclonal Antibody
Catalog #: KVAb00783

For research use only.

Summary

Description	KO&KD-Validated antibody
Host	Rabbit
Application	WB,FCM,ICC
Reactivity	Human,Mouse,Rat
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
Molecular Weight	Calculated MW: 116.0kDa

Antigen Information

Gene Name	ITGAV
Alternative Names	ITGAV; Integrin Subunit Alpha V; CD51; MSK8; VNRA; VTNR; Integrin, Alpha V (Vitronectin Receptor, Alpha Polypeptide, Antigen CD51); Antigen Identified By Monoclonal Antibody L230; Vitronectin Receptor Subunit Alpha; Vitronectin Receptor; Integrin Alpha-V; Integrin AlphaVbeta3; Integrin, Alpha V; CD51 Antigen
Gene ID	3685.0
SwissProt ID	P06756
Immunogen	Recombinant protein of human Integrin alpha V

Background

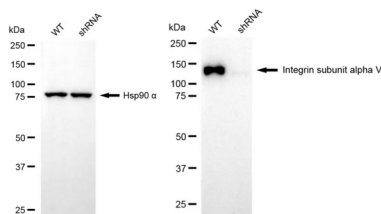
The product of this gene belongs to the integrin alpha chain family. Integrins are heterodimeric integral membrane proteins

composed of an alpha subunit and a beta subunit that function in cell surface adhesion and signaling. The encoded preproprotein is proteolytically processed to generate light and heavy chains that comprise the alpha V subunit. This subunit associates with beta 1, beta 3, beta 5, beta 6 and beta 8 subunits. The heterodimer consisting of alpha V and beta 3 subunits is also known as the vitronectin receptor. This integrin may regulate angiogenesis and cancer progression. Alternative splicing results in multiple transcript variants. Note that the integrin alpha 5 and integrin alpha V subunits are encoded by distinct genes. [provided by RefSeq, Oct 2015]

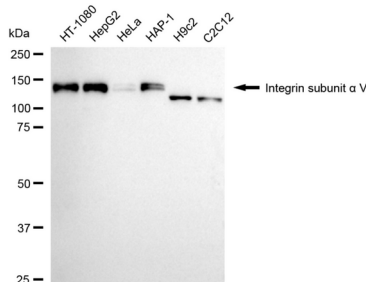
Research Area

Cardiovascular, Microbiology, Stem Cells

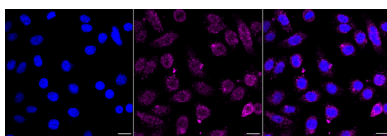
Image Data



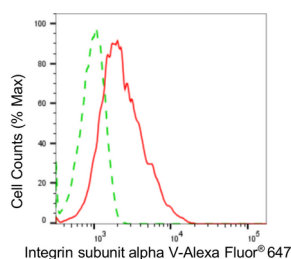
Western blotting analysis using integrin subunit alpha V antibody (KVA00783). Integrin subunit alpha V expression in wild-type (WT) and integrin subunit alpha V (ITGAV) shRNA knockdown (KD) HeLa cells with 20 µg of total cell lysates. Hsp90 α serves as a loading control. The blot was incubated with integrin subunit alpha V antibody (KVA00783, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody (APS0635, 1:10,000) respectively.



Western blotting analysis using integrin subunit alpha V antibody (KVA00783). Total cell lysates (30 µg) from various cell lines were loaded and separated by SDS-PAGE. The blot was incubated with integrin subunit alpha V antibody (KVA00783, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody (APS0635, 1:10,000) respectively.



Immunocytochemical staining of HepG2 cells with Integrin subunit alpha V antibody (KVA00783, 1:1,000). Nuclei were stained blue with DAPI; Integrin subunit alpha V was stained magenta with Alexa Fluor® 647. Images were taken using Leica stellaris 5. Protein abundance based on laser Intensity and smart gain: Low. Scale bar, 20 µm.



Flow cytometric analysis of integrin subunit alpha V expression in HepG2 cells using integrin subunit alpha V antibody (KVA00783, 1:2,000). Green, isotype control; red, integrin subunit alpha V.