

Product Name: KD-Validated Integrin Alpha 5 Recombinant Rabbit Monoclonal Antibody
Catalog #: KVAb00259

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: 114.5kDa

Antigen Information

Gene Name	ITGA5
Alternative Names	ITGA5; Integrin; Alpha 5 (Fibronectin Receptor,Alpha Polypeptide); VLA5A FNRA; CD49e; Fibronectin Receptor Subunit Alpha; Fibronectin Receptor Alpha Subunit; Integrin Alpha-F; Integrin Alpha-5; VLA-5; Very Late Activation Protein 5; Alpha Subunit; CD49 Antigen-Like Family Member E; CD49e Antigen
Gene ID	3678.0
SwissProt ID	P08648
Immunogen	A synthesized peptide derived from human Integrin alpha 5

Background

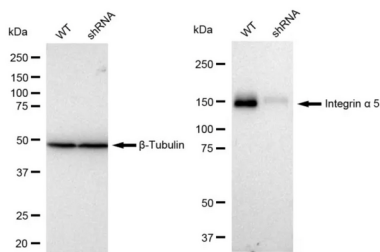
The product of this gene belongs to the integrin alpha chain family. Integrins are heterodimeric integral membrane proteins

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 5 subunit. This subunit associates with the beta 1 subunit to form a fibronectin receptor. This integrin may promote tumor invasion, and higher expression of this gene may be correlated with shorter survival time in lung cancer patients. Note that the integrin alpha 5 and integrin alpha V subunits are encoded by distinct genes. [provided by RefSeq, Oct 2015]

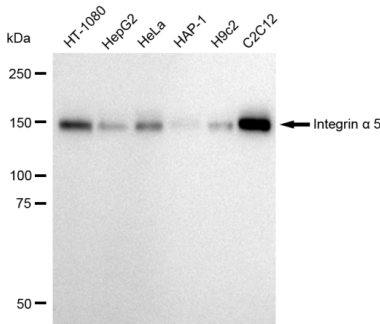
Research Area

Signal Transduction, Stem Cells

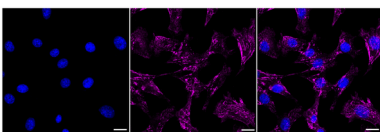
Image Data



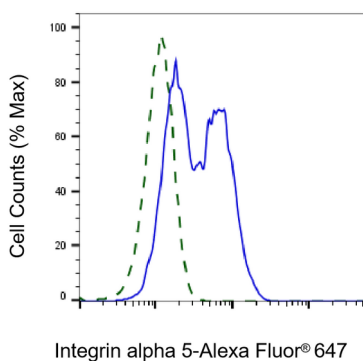
Western blotting analysis using Integrin alpha 5 antibody (KVA00259). Integrin alpha 5 expression in wild type (WT) and Integrin alpha 5 shRNA knockdown (KD) HeLa cells with 30 µg of total cell lysates. β -Tubulin serves as a loading control. The blot was incubated with Integrin alpha 5 antibody (KVA00259, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody (APS0635, 1:10,000) respectively.



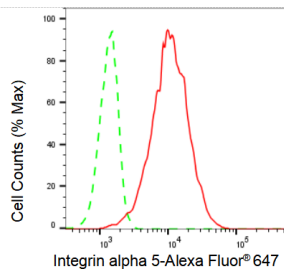
Western blotting analysis using Integrin alpha 5 antibody (KVA00259). Total cell lysates (30 µg) from various cell lines were loaded and separated by SDS-PAGE. The blot was incubated with Integrin alpha 5 antibody (KVA00259, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody (APS0635, 1:10,000) respectively.



Immunocytochemical staining of C2C12 cells with Integrin alpha 5 antibody (KVA00259, 1:1,000). Nuclei were stained blue with DAPI; Integrin alpha 5 was stained magenta with Alexa Fluor® 647. Images were taken using Leica stellaris 5. Protein abundance based on laser Intensity and smart gain: High. Scale bar: 20 µm.



Validation of Integrin alpha 5 knockdown using flow cytometry. Wild-type(WT, Blue) and knockdown(KD, Green) HeLa cells were stained with Integrin alpha 5 antibody (KVA00259, 1:2,000) and analyzed using CytoFLEX.



Flow cytometric analysis of Integrin alpha 5 expression in C2C12 cells using Integrin alpha 5 antibody (KVA00259, 1:2,000). Green, isotype control; red, Integrin alpha 5.