

Product Name: KO-Validated Integrin Subunit Alpha 2 Recombinant Rabbit Monoclonal Antibody

Catalog #: KVAb00156

For research use only.

Summary

Description	KO&KD-Validated antibody
Host	Rabbit
Application	WB,FCM,ICC
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
Molecular Weight	Calculated MW: 129.3kDa

Antigen Information

Gene Name	ITGA2 ITGA2; Integrin Subunit Alpha 2; GPIa; VLAA2; HPA-5; CD49B; Integrin, Alpha 2 (CD49B, Alpha 2 Subunit Of VLA-2 Receptor); Very Late Activation Receptor Subunit Alpha-2; Alpha 2 Subunit Of VLA-2 Receptor; CD49 Antigen-Like Family Member B; Platelet Membrane
Alternative Names	Glycoprotein Ia; Human Platelet Alloantigen 5 2 3; Alpha 2 Integrin; Integrin Alpha-2; Glycoprotein Ia; Very Late Activation Protein 2 Receptor, Alpha-2 Subunit; Very Late Activation Receptor Alpha-2 Subunit; Human Platelet Alloantigen System 5; Platelet Glycoprotein GPIa; Platelet Antigen Br; VLA-2 Subunit Alpha; CD49b Antigen; VLA-2; BR
Gene ID	3673.0
SwissProt ID	P17301

Immunogen

A synthesized peptide derived from human Integrin alpha 2

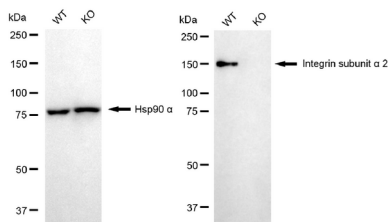
Background

This gene encodes the alpha subunit of a transmembrane receptor for collagens and related proteins. The encoded protein forms a heterodimer with a beta subunit and mediates the adhesion of platelets and other cell types to the extracellular matrix. Loss of the encoded protein is associated with bleeding disorder platelet-type 9. Antibodies against this protein are found in several immune disorders, including neonatal alloimmune thrombocytopenia. This gene is located adjacent to a related alpha subunit gene. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Aug 2012]

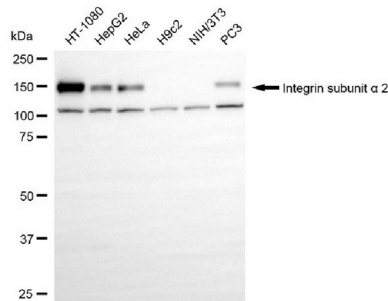
Research Area

Immunology, Signal Transduction

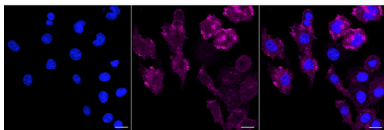
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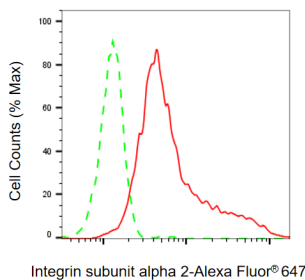
Western blotting analysis using integrin subunit alpha 2 antibody (KVA00156). Integrin subunit alpha 2 expression in wild type (WT) and integrin subunit alpha 2 (ITGA2) knockout (KO) HSHC cells with 20 µg of total cell lysates. Hsp90 α serves as a loading control. The blot was incubated with integrin subunit alpha 2 antibody (KVA00156, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody (APS0635, 1:10,000) respectively.



Western blotting analysis using Integrin subunit alpha 2 antibody (KVA00156). Total cell lysates (30 µg) from various cell lines were loaded and separated by SDS-PAGE. The blot was incubated with Integrin subunit alpha 2 antibody (KVA00156, 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 2 antibody (KVA00156, 1:1,000). Nuclei were stained blue with DAPI; Integrin subunit alpha 2 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 subunit alpha 2 expression in HepG2 cells using Integrin subunit alpha 2 antibody (KVA00156, 1:2,000). Green, isotype control; red, Integrin subunit alpha 2.