

Product Name: KD-Validated Integrin Subunit Beta 4 Recombinant Rabbit Monoclonal Antibody

Catalog #: KVA01843

For research use only.

Summary

Description	KO&KD-Validated antibody
Host	Rabbit
Application	WB,FCM
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
Molecular Weight	Calculated MW: 202.2kDa

Antigen Information

Gene Name	ITGB4
Alternative Names	ITGB4; Integrin Subunit Beta 4; CD104; Integrin Beta-4; CD104 Antigen; GP150; Integrin, Beta 4; JEB5A; JEB5B
Gene ID	3691.0
SwissProt ID	P16144
Immunogen	A synthesized peptide derived from human Integrin beta 4

Background

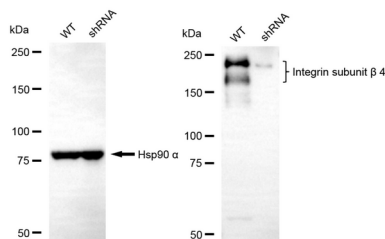
Integrins are heterodimers comprised of alpha and beta subunits, that are noncovalently associated transmembrane glycoprotein receptors. Different combinations of alpha and beta polypeptides form complexes that vary in their ligand-

binding specificities. Integrins mediate cell-matrix or cell-cell adhesion, and transduced signals that regulate gene expression and cell growth. This gene encodes the integrin beta 4 subunit, a receptor for the laminins. This subunit tends to associate with alpha 6 subunit and is likely to play a pivotal role in the biology of invasive carcinoma. Mutations in this gene are associated with epidermolysis bullosa with pyloric atresia. Multiple alternatively spliced transcript variants encoding distinct isoforms have been found for this gene. [provided by RefSeq, Jul 2008]

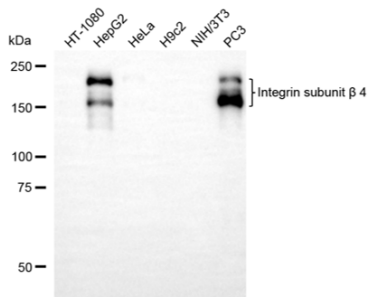
Research Area

Signal Transduction

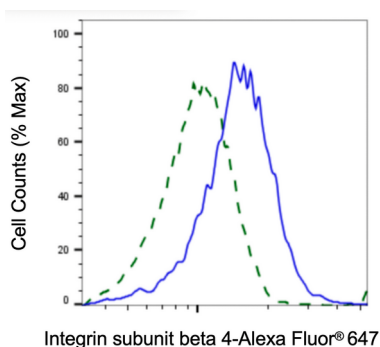
Image Data



Western blotting analysis using integrin subunit beta 4 antibody (KVA01843). Integrin subunit beta 4 expression in wild-type (WT) and integrin subunit beta 4 (ITGB4) shRNA knockdown (KD) HepG2 cells with 20 µg of total cell lysates. Hsp90 α serves as a loading control. The blot was incubated with integrin subunit beta 4 antibody (KVA01843, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody (APS0635, 1:10,000) respectively.



Western blotting analysis using integrin subunit beta 4 antibody (KVA01843). Total cell lysates (30 µg) from various cell lines were loaded and separated by SDS-PAGE. The blot was incubated with integrin subunit beta 4 antibody (KVA01843, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody (APS0635, 1:10,000) respectively.



Validation of Integrin subunit beta 4 knockdown using flow cytometry. Wild-type(WT, Blue) and knockdown(KD, Green) HepG2 cells were stained with Integrin subunit beta 4 antibody (KVA01843, 1:2,000) and analyzed using BD flow cytometer.