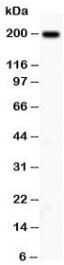
Integrin beta 4 Antibody / ITGB4 / CD104 (R30790)

Catalog No.	Formulation	Size
R30790	0.5mg/ml if reconstituted with 0.2ml sterile DI water	100 ug

Bulk quote request

Availability	1-3 business days
Species Reactivity	Human, Mouse, Rat
Format	Antigen affinity purified
Host	Rabbit
Clonality	Polyclonal (rabbit origin)
Isotype	Rabbit IgG
Purity	Antigen affinity
Buffer	Lyophilized from 1X PBS with 2.5% BSA and 0.025% sodium azide/thimerosal
UniProt	P16144
Applications	Western blot: 0.5-1ug/ml
Limitations	This Integrin beta 4 antibody is available for research use only.



Western blot testing of Integrin beta 4 antibody and A431 lysate; Predicted molecular weight ~200 kDa.

Description

ITGB4 (Integrin beta 4), also known as CD104 (Cluster of Differentiation 104), is a human gene. The gene encodes the integrin beta 4 subunits, a receptor for the laminins. This subunit tends to associate with alpha 6 subunits and is likely to play a pivotal role in the biology of invasive carcinoma. The ITGB4 gene is mapped on 17q25.1. Using expression profiling, Yang et al. found that ITGB4 was upregulated 6-fold by ZKSCAN3 in transfected human colon cancer cells compared with parental cells. They confirmed that ZKSCAN3 bound the promoter of ITGB4 in vitro and in vivo. ITGB4 knockdown by short hairpin RNA countered ZKSCAN3-augmented anchorage-independent colony formation in the colon cancer cell lines. The integrin beta-4 subunit is characterized by an unusually long cytoplasmic domain that harbors 4

fibronectin type III (FNIII) repeats, residing in 2 pairs separated by a connecting segment. Vidal et al. found compound heterozygosity for mutations in the gene in an infant with junctional epidermolysis bullosa associated with pyloric atresia.

For a broadly validated antibody targeting this protein, see our CD104 Antibody / ITGB4 Polyclonal Antibody page.

Application Notes

The stated application concentrations are suggested starting amounts. Titration of the Integrin beta 4 antibody may be required due to differences in protocols and secondary/substrate sensitivity.

Immunogen

An amino acid sequence from the C-terminus of human ITGB4 (TLSTHMDQQFFQT) was used as the immunogen for this Integrin beta 4 antibody.

Storage

After reconstitution, the Integrin beta 4 antibody can be stored for up to one month at 4oC. For long-term, aliquot and store at -20oC. Avoid repeated freezing and thawing.

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