

Datasheet for ABIN3042525  
**anti-Integrin beta 4 antibody (AA 28-266)**

## 3 Images

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## Overview

Quantity:	100 µg
Target:	Integrin beta 4 (ITGB4)
Binding Specificity:	AA 28-266
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This Integrin beta 4 antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p))

## Product Details

Purpose:	Rabbit IgG polyclonal antibody for Integrin beta-4(ITGB4) detection. Tested with WB, IHC-P in Human.
Brand:	Picoband™
Immunogen:	E.coli-derived human Integrin beta 4 recombinant protein (Position: N28-A266). Human Integrin beta 4 shares 88% and 86% amino acid (aa) sequence identity with mouse and rat Integrin beta 4, respectively.
Isotype:	IgG
Cross-Reactivity (Details):	No cross reactivity with other proteins.
Characteristics:	Rabbit IgG polyclonal antibody for Integrin beta-4(ITGB4) detection. Tested with WB, IHC-P in Human. Gene Name: integrin, beta 4

## Product Details

Protein Name: Integrin beta-4

Purification: Immunogen affinity purified.

## Target Details

Target: Integrin beta 4 (ITGB4)

Alternative Name: ITGB4 ([ITGB4 Products](#))

Background: 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 ITGB4 gene in an infant with junctional epidermolysis bullosa associated with pyloric atresia.

Synonyms: CD 104 antibody|CD104 antibody|CD104 antigen antibody|GP150 antibody|Integrin beta 4 subunit antibody|Integrin beta-4 antibody|ITB4\_HUMAN antibody|ITG B4 antibody|ITGB 4 antibody|ITGB4 antibody

UniProt: [P16144](#)

Pathways: [Integrin Complex](#)

## Application Details

Application Notes: WB: Concentration: 0.1-0.5 µg/mL, Tested Species: Human  
IHC-P: Concentration: 0.5-1 µg/mL, Tested Species: Human, Epitope Retrieval by Heat: Boiling the paraffin sections in 10 mM citrate buffer, pH 6.0, for 20 mins is required for the staining of formalin/paraffin sections.  
Notes: Tested Species: Species with positive results. Other applications have not been tested.  
Optimal dilutions should be determined by end users.

Comment: Antibody can be supported by chemiluminescence kit ABIN921124 in WB, supported by

Application Details

	ABIN921231 in IHC(P).
Restrictions:	For Research Use only

Handling

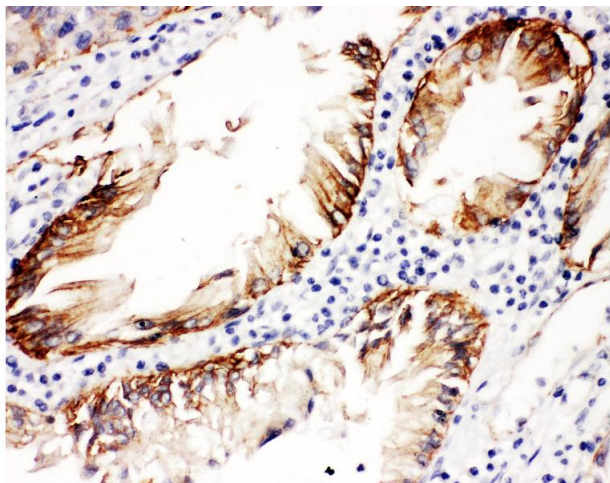
Format:	Lyophilized
Reconstitution:	Add 0.2 mL of distilled water will yield a concentration of 500 µg/mL.
Concentration:	500 µg/mL
Buffer:	Each vial contains 5 mg BSA, 0.9 mg NaCl, 0.2 mg Na2HPO4, 0.05 mg Sodium azide.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Handling Advice:	Avoid repeated freezing and thawing.
Storage:	4 °C/-20 °C
Storage Comment:	At -20°C for one year. After reconstitution, at 4°C for one month. It can also be aliquotted and stored frozen at -20 °C for a longer time. Avoid repeated freezing and thawing.

Images



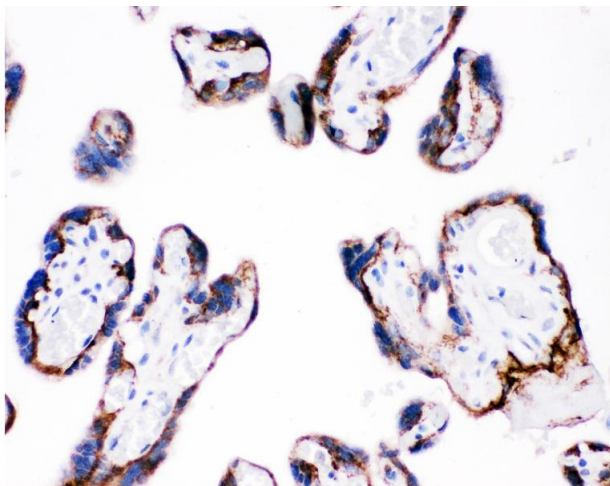
**Western Blotting**

**Image 1.** Anti-Integrin beta 4 Picoband antibody, All lanes: Anti-ITGB4 at 0.5ug/ml WB: Recombinant Human Integrin beta4 Protein 0.5ng Predicted bind size: 40KD Observed bind size: 40KD



#### Immunohistochemistry

**Image 2.** Anti-Integrin beta 4 Picoband antibody, IHC(P):  
Human Intestinal Cancer Tissue



#### Immunohistochemistry

**Image 3.** Anti-Integrin beta 4 Picoband antibody, IHC(P):  
Human Placenta Tissue