

## Anti-Integrin beta 1/ITGB1 Antibody Picoband® Biotin Conjugated

Catalog Number: PB9086-Biotin

### About ITGB1

Integrin beta-1, also known as CD29, is a protein that in humans is encoded by the ITGB1 gene. CD29 is an integrin unit associated with very late antigen receptors. It is known to conjoin with alpha-3 subunit to create alpha3beta1 complex that reacts to such molecules as netrin-1 and reelin. This gene contains a beta subunit that appears to be analogous to band-3 of integrin. It is mapped to 10p11.22. It is found that FER mediates crosstalk between CDH2 and CD29. Integrin family members are membrane receptors involved in cell adhesion and recognition in a variety of processes including embryogenesis, hemostasis, tissue repair, immune response and metastatic diffusion of tumor cells. The protein encoded by this gene is a beta subunit.

### Overview

Product Name	Anti-Integrin beta 1/ITGB1 Antibody Picoband® Biotin Conjugated
Reactive Species	Human, Rat
Application	WB, IHC, ELISA
Clonality	Polyclonal
Formulation	Each vial contains 50% glycerol, 0.9% NaCl, 0.2% Na2HPO4, 0.02% NaN3.
Storage Instructions	At -20°C for one year from date of receipt. Avoid repeated freezing and thawing.
Host	Rabbit
Uniprot ID	P05556

### Technical Details

Immunogen	E.coli-derived human ITGB1 recombinant protein (Position: N527-D728). Human ITGB1 shares 91% and 88% amino acid (aa) sequences identity with mouse and rat ITGB1, respectively.
Cross Reactivity	No cross-reactivity with other proteins
Isotype	Rabbit IgG
Form	Liquid
Concentration	0.5 mg/mL
Purification	Immunogen affinity purified.
Conjugate	Biotin
Suggested Dilutions	Western blot, Optimal dilutions should be determined by end users.

Immunohistochemistry (Paraffin-embedded Section), Optimal dilutions should be determined by end users.  
ELISA, Optimal dilutions should be determined by end users.

## 10 Publications Citing This Product

1. PubMed ID: 10.3892/ijmm.2016.2519, Abnormalities in the basement membrane structure promote basal keratinocytes in the epidermis of hypertrophic scars to adopt a proliferative phenotype
2. PubMed ID: 10.3892/mmr.2015.4449, Suppression of A549 cell proliferation and metastasis by calycosin via inhibition of the PKC $\alpha$ /ERK1/2 pathway: An in vitro investigation
3. PubMed ID: 10.3892/ol.2016.4234, Inhibition of the peritoneal metastasis of human gastric cancer cells by dextran sulphate in vivo and in vitro

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