

Datasheet for ABIN5693202

## anti-ITGA5 antibody (AA 42-263)

6 Images

4 Publications



[Go to Product page](#)

### Overview

|                      |                                                          |
|----------------------|----------------------------------------------------------|
| Quantity:            | 100 µg                                                   |
| Target:              | ITGA5                                                    |
| Binding Specificity: | AA 42-263                                                |
| Reactivity:          | Human, Mouse, Rat                                        |
| Host:                | Rabbit                                                   |
| Clonality:           | Polyclonal                                               |
| Conjugate:           | This ITGA5 antibody is un-conjugated                     |
| Application:         | Western Blotting (WB), ELISA, Immunohistochemistry (IHC) |

### Product Details

|                             |                                                                                                                          |
|-----------------------------|--------------------------------------------------------------------------------------------------------------------------|
| Brand:                      | Picoband™                                                                                                                |
| Immunogen:                  | E. coli-derived human Integrin alpha 5 recombinant protein (Position: F42-A263).                                         |
| Cross-Reactivity (Details): | No cross reactivity with other proteins.                                                                                 |
| Characteristics:            | Rabbit IgG polyclonal antibody for Integrin alpha 5 detection. Tested with WB, IHC-P, Direct ELISA in Human, Mouse, Rat. |

### Target Details

|                   |                                                                                             |
|-------------------|---------------------------------------------------------------------------------------------|
| Target:           | ITGA5                                                                                       |
| Alternative Name: | ITGA5 ( <a href="#">ITGA5 Products</a> )                                                    |
| Background:       | Synonyms: Integrin alpha-5, CD49 antigen-like family member E, Fibronectin receptor subunit |

## Target Details

alpha, Integrin alpha-F, VLA-5, CD49e, Integrin alpha-5 heavy chain, Integrin alpha-5 light chain, ITGA5, FNRA

Background: Integrin alpha-5, also known as FNRA or VLA5A, is a protein that in humans is encoded by the ITGA5 gene. The product of this gene belongs to the integrin alpha chain family. Integrins are integral membrane proteins composed of an alpha chain and a beta chain. This gene encodes the integrin alpha 5 chain. Alpha chain 5 undergoes post-translational cleavage in the extracellular domain to yield disulfide-linked light and heavy chains that join with beta 1 to form a fibronectin receptor. In addition to adhesion, integrins are known to participate in cell-surface mediated signalling.

UniProt: [P08648](#)

Pathways: [Integrin Complex](#)

## Application Details

Application Notes: Recommended Detection Systems: Enhanced Chemiluminescent Kit with anti-Rabbit IgG (ABIN921124) for Western blot, and HRP Conjugated anti-Rabbit IgG Super Vision Assay Kit (SV0002-1) for IHC(P).

Application Details: Western blot, 0.1-0.5 µg/mL

Immunohistochemistry(Paraffin-embedded Section), 0.5-1 µg/mL

Direct ELISA, 0.1-0.5 µg/mL

Restrictions: For Research Use only

## Handling

Format: Lyophilized

Reconstitution: Add 0.2 mL of distilled water will yield a concentration of 500 µg/mL.

Buffer: Each vial contains 4 mg Trehalose, 0.9 mg NaCl, 0.2 mg Na<sub>2</sub>HPO<sub>4</sub>, 0.05 mg NaN<sub>3</sub>.

Preservative: Sodium azide

Precaution of Use: This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

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.

Publications

Product cited in:

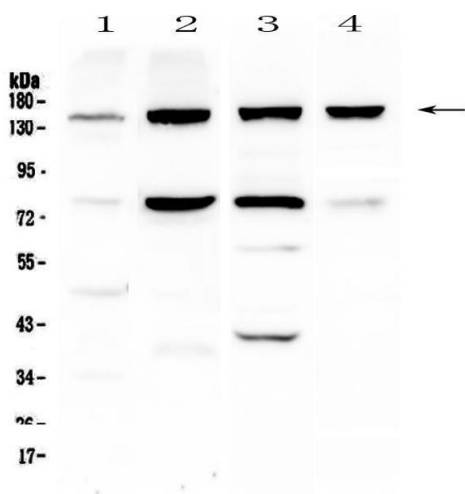
Chen, Sun, Liu, Tong, Meng: "Silencing of Paternally Expressed Gene 10 Inhibits Trophoblast Proliferation and Invasion." in: **PLoS ONE**, Vol. 10, Issue 12, pp. e0144845, (2015) ([PubMed](#)).

Zhang, Ren, Luo, Fan, Liu, Liang, Ma, Yu, Bai: "A small physiological electric field mediated responses of extravillous trophoblasts derived from HTR8/SVneo cells: involvement of activation of focal adhesion kinase signaling." in: **PLoS ONE**, Vol. 9, Issue 3, pp. e92252, (2014) ([PubMed](#)).

Huang, Lian, Chen, Yang, Yang: "Characterization of rat hair follicle stem cells selected by vario magnetic activated cell sorting system." in: **Acta histochemica et cytochemica**, Vol. 42, Issue 5, pp. 129-36, (2009) ([PubMed](#)).

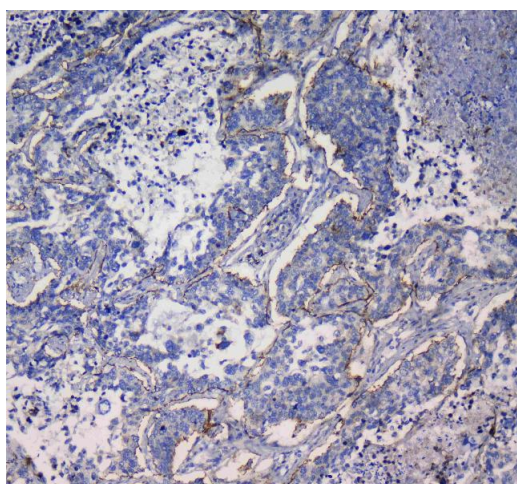
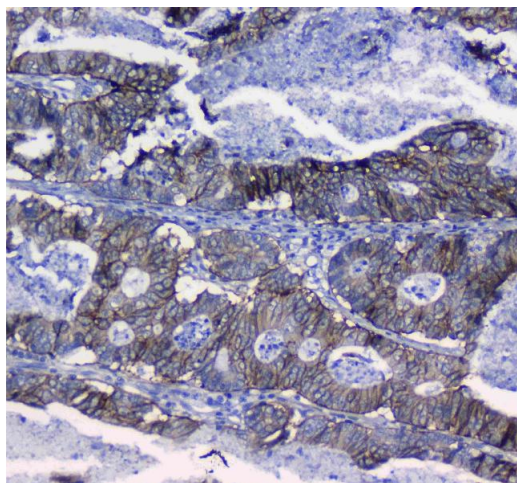
"College training and examinations." in: **The Australian and New Zealand journal of psychiatry**, Vol. 23, Issue 2, pp. 148-54, (1989) ([PubMed](#)).

Images



Western Blotting

**Image 1.** Western blot analysis of Integrin alpha 5 using anti-Integrin alpha 5 antibody . Electrophoresis was performed on a 5-20% SDS-PAGE gel at 70V (Stacking gel) / 90V (Resolving gel) for 2-3 hours. The sample well of each Lane was loaded with 50ug of sample under reducing conditions. Lane 1: human Hela cell lysate, Lane 2: human HepG2 cell lysate, Lane 3: rat liver tissue lysate, Lane 4: mouse liver tissue lysate. After Electrophoresis, proteins were transferred to a Nitrocellulose membrane at 150mA for 50-90 minutes. Blocked the membrane with 5% Non-fat Milk/ TBS for 1.5 hour at RT. The membrane was incubated with rabbit anti-Integrin alpha 5 antigen affinity purified polyclonal antibody (Catalog # ) at 0.5 µg/mL overnight at 4°C, then washed with TBS-0.1%Tween 3 times with 5 minutes each and probed with a goat anti-rabbit IgG-HRP secondary antibody at a dilution of 1:10000 for 1.5 hour at



RT. The signal is developed using an Enhanced Chemiluminescent detection (ECL) kit (Catalog # EK1002) with Tanon 5200 system. A specific band was detected for Integrin alpha 5 at approximately 150KD. The expected band size for Integrin alpha 5 is at 114KD.

#### Immunohistochemistry

**Image 2.** IHC analysis of Integrin alpha 5 using anti-Integrin alpha 5 antibody . Integrin alpha 5 was detected in paraffin-embedded section of human colon cancer tissue. Heat mediated antigen retrieval was performed in citrate buffer (pH6, epitope retrieval solution) for 20 mins. The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 1µg/ml rabbit anti-Integrin alpha 5 Antibody overnight at 4°C. Biotinylated goat anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37°C. The tissue section was developed using Streptavidin-Biotin-Complex (SABC)(Catalog # SA1022) with DAB as the chromogen.

#### Immunohistochemistry

**Image 3.** IHC analysis of Integrin alpha 5 using anti-Integrin alpha 5 antibody . Integrin alpha 5 was detected in paraffin-embedded section of human lung cancer tissue. Heat mediated antigen retrieval was performed in citrate buffer (pH6, epitope retrieval solution) for 20 mins. The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 1µg/ml rabbit anti-Integrin alpha 5 Antibody overnight at 4°C. Biotinylated goat anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37°C. The tissue section was developed using Streptavidin-Biotin-Complex (SABC)(Catalog # SA1022) with DAB as the chromogen.

Please check the [product details page](#) for more images. Overall 6 images are available for ABIN5693202.