

Datasheet for ABIN969221

**anti-ITGA5 antibody**

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## Overview

Quantity:	100 µL
Target:	ITGA5
Reactivity:	Human
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This ITGA5 antibody is un-conjugated
Application:	Western Blotting (WB), Flow Cytometry (FACS), ELISA, Immunohistochemistry (IHC)

## Product Details

Immunogen:	Purified recombinant fragment of human ITGA5 expressed in E. coli.
Clone:	10F6
Isotype:	IgG2a
Purification:	purified

## Target Details

Target:	ITGA5
Alternative Name:	ITGA5 ( <a href="#">ITGA5 Products</a> )
Background:	Description: The product of this gene belongs to the integrin alpha chain family. Integrins are heterodimeric 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

## Target Details

form a fibronectin receptor. In addition to adhesion, integrins are known to participate in cell-surface mediated signalling. Integrin alpha 5 is a heterodimer that associates noncovalently with CD29/integrin beta 1 subunit to form the alpha-5-beta-1 very late antigen (VLA-5) complex. VLA-5 is a fibronectin receptor that is expressed on thymocytes, T-cells, monocytes and platelets. It is also found on very early B-cells and activated B-cells. VLA-5-mediated binding to fibronectin sends a costimulatory signal to T-cells and enhances Fc-gamma-R- and complement receptor-mediated phago-cytosis. It is also involved in monocyte migration into extracellular tissues.

Aliases: FNRA, CD49e, VLA5A, ITGA5

Molecular Weight: 114 kDa

Gene ID: 3678

HGNC: 3678

Pathways: [Integrin Complex](#)

## Application Details

Application Notes: ELISA: 1:10000, WB: 1:500 - 1:2000, IHC: 1:200 - 1:1000, FCM: 1:200 - 1:400

Restrictions: For Research Use only

## Handling

Format: Liquid

Buffer: Ascitic fluid containing 0.03 % 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.

Storage: 4 °C/-20 °C

Storage Comment: 4°C, -20°C for long term storage

## Publications

Product cited in: Sottile, Hocking: "Fibronectin polymerization regulates the composition and stability of extracellular matrix fibrils and cell-matrix adhesions." in: **Molecular biology of the cell**, Vol. 13, Issue 10, pp. 3546-59, (2002) ([PubMed](#)).

Alahari, Lee, Juliano: "Nischarin, a novel protein that interacts with the integrin alpha5 subunit and inhibits cell migration." in: **The Journal of cell biology**, Vol. 151, Issue 6, pp. 1141-54, (2001) ([PubMed](#)).

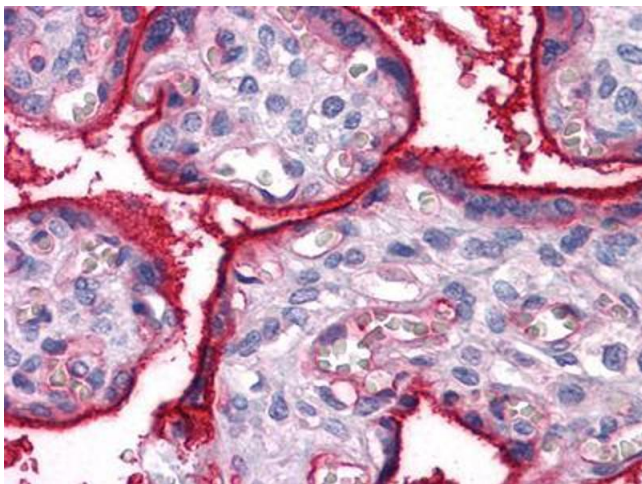
Aplin, Short, Juliano: "Anchorage-dependent regulation of the mitogen-activated protein kinase cascade by growth factors is supported by a variety of integrin alpha chains." in: **The Journal of biological chemistry**, Vol. 274, Issue 44, pp. 31223-8, (1999) ([PubMed](#)).

Zheng, Fang, Hakomori et al.: "Functional role of N-glycosylation in alpha 5 beta 1 integrin receptor. De-N-glycosylation induces dissociation or altered association of alpha 5 and beta 1 subunits and concomitant loss of ..." in: **The Journal of biological chemistry**, Vol. 269, Issue 16, pp. 12325-31, (1994) ([PubMed](#)).

Bauer, Varner, Schreiner, Kornberg, Nicholas, Juliano: "Functional role of the cytoplasmic domain of the integrin alpha 5 subunit." in: **The Journal of cell biology**, Vol. 122, Issue 1, pp. 209-21, (1993) ([PubMed](#)).

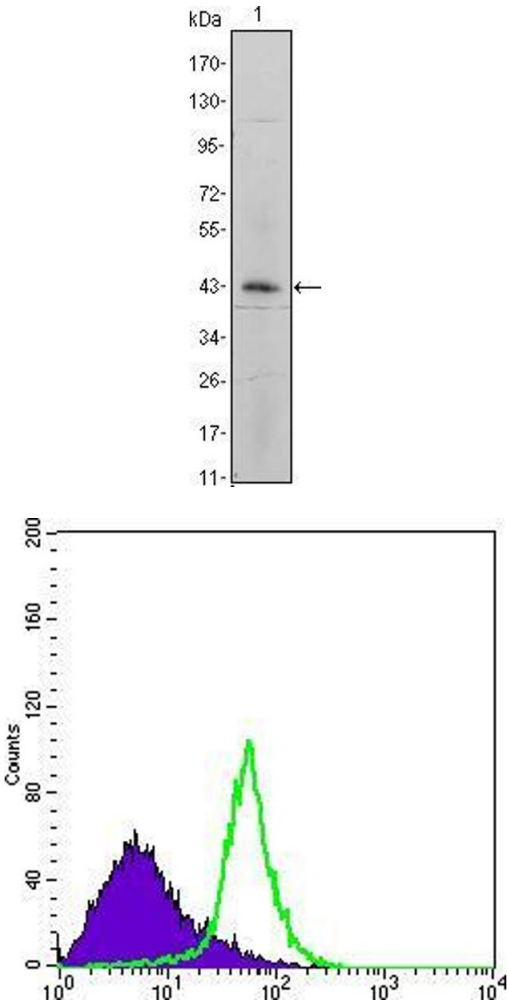
## Images

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### Immunohistochemistry

**Image 1.** Immunohistochemical analysis of paraffin-embedded human Placenta tissues using ITGA5 mouse mAb



Western Blotting

**Image 2.** Western blot analysis using ITGA5 mouse mAb against ITGA5-hlgGFc transfected HEK293 cell lysate.

Flow Cytometry

**Image 3.** Flow cytometric analysis of Hela cells using ITGA5 mouse mAb (green) and negative control (purple).