Best Tools for immunology Research

# Integrin α5 Monoclonal Antibody

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| **Catalog No :** | YM0379 |
| **Reactivity :** | Human |
| **Applications :** | WB;IHC;IF;FCM;ELISA |
| **Target :** | Integrin α5 |
| **Fields :** | >>Phagosome;>>PI3K-Akt signaling pathway;>>Focal adhesion;>>ECM-receptor interaction;>>Hematopoietic cell lineage;>>Regulation of actin cytoskeleton;>>Bacterial invasion of epithelial cells;>>Shigellosis;>>Pertussis;>>Yersinia infection;>>Human papillomavirus infection;>>Herpes simplex virus 1 infection;>>Proteoglycans in cancer;>>MicroRNAs in cancer;>>Hypertrophic cardiomyopathy;>>Arrhythmogenic right ventricular cardiomyopathy;>>Dilated cardiomyopathy |
| **Gene Name :** | ITGA5 |
| **Protein Name :** | Integrin alpha-5 |
| **Human Gene Id :** | 3678 |
| **Human Swiss Prot No :** | P08648 |
| **Mouse Swiss Prot No :** | P11688 |
| **Immunogen :** | Purified recombinant fragment of human Integrin α5 expressed in E. Coli. |
| **Specificity :** | Integrin α5 Monoclonal Antibody detects endogenous levels of Integrin α5 protein. |
| **Formulation :** | Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide. |
| **Source :** | Monoclonal, Mouse |
| **Dilution :** | WB 1:500 - 1:2000. IHC 1:200 - 1:1000. Flow cytometry: 1:200 - 1:400. ELISA: 1:10000.. IF 1:50-200 |

**Purification :** Affinity purification

**Storage Stability :** -15°C to -25°C/1 year(Do not lower than -25°C)

**Molecularweight :** 115kD

**Cell Pathway :** Focal adhesion;ECM-receptor interaction;Hematopoietic cell lineage;Regulates Actin and Cytoskeleton;Hypertrophic cardiomyopathy (HCM);Arrhythmogenic right ventricular cardiomyopathy (ARVC);Dilated car

**P References :**

1. Proc Natl Acad Sci USA. 1993. 90(22):10553-7.
2. J Cell Biol. 1998. 143(7):2081-92.
3. Mol Biol Cell. 2000. 11(9):3109-21.
4. J Cell Biol. 2001. 152(1):65-73.
5. J Biol Chem. 2002.

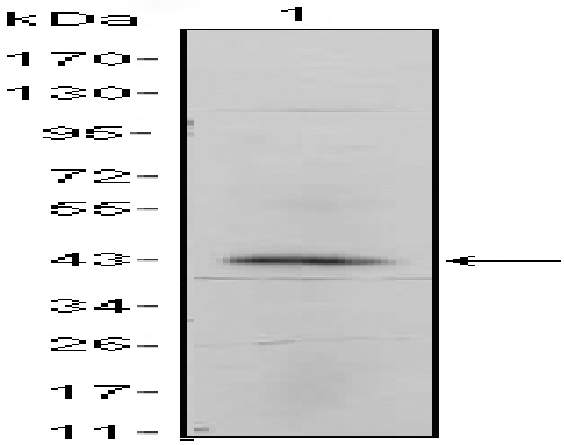
**Background :** integrin subunit alpha 5(ITGA5) Homo sapiens The product of this gene belongs to the integrin alpha chain family. Integrins are heterodimeric integral membrane proteins composed of an alpha subunit and a beta subunit that function in cell surface adhesion and signaling. The encoded preproprotein is proteolytically processed to generate light and heavy chains that comprise the alpha 5 subunit. This subunit associates with the beta 1 subunit to form a fibronectin receptor. This integrin may promote tumor invasion, and higher expression of this gene may be correlated with shorter survival time in lung cancer patients. Note that the integrin alpha 5 and integrin alpha V subunits are encoded by distinct genes. [provided by RefSeq, Oct 2015],

**Function :** function:Integrin alpha-5/beta-1 is a receptor for fibronectin and fibrinogen. It recognizes the sequence R-G-D in its ligands. In case of HIV-1 infection, the interaction with extracellular viral Tat protein seems to enhance angiogenesis in Kaposi's sarcoma lesions.,similarity:Belongs to the integrin alpha chain family.,similarity:Contains 7 FG-GAP repeats.,subunit:Heterodimer of an alpha and a beta subunit. The alpha subunit is composed of an heavy and a light chain linked by a disulfide bond. Alpha-5 associates with beta-1. Interacts with HPS5 and NISCH. Interacts with HIV-1 Tat. Interacts with RAB21.,

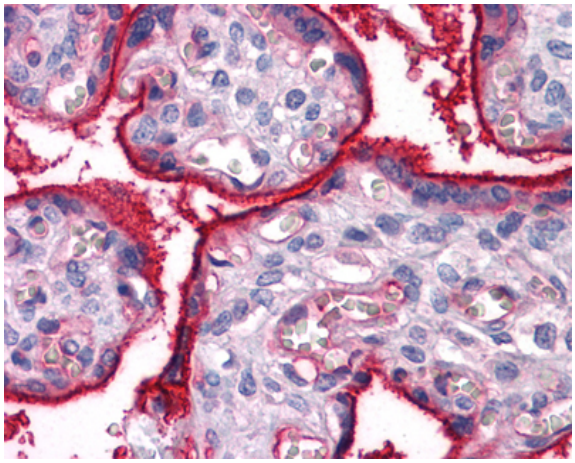
**Subcellular Location :** Membrane; Single-pass type I membrane protein. Cell junction, focal adhesion . Cell surface .

**Expression :** Liver,Placenta,

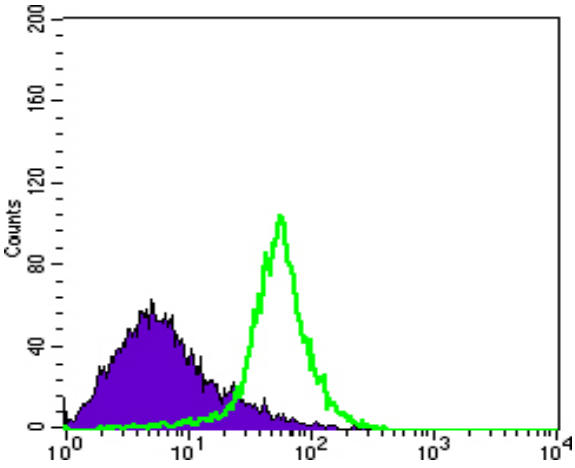
## Products Images




Western Blot analysis using Integrin α5 Monoclonal Antibody against ITGA5-hIgGFc transfected HEK293 cell lysate.



Immunohistochemistry analysis of paraffin-embedded human Placenta tissues with AEC staining using Integrin α5 Monoclonal Antibody.




Flow cytometric analysis of Hela cells using Integrin α5 Monoclonal Antibody (green) and negative control (purple).