

## Integrin alpha 5 Rabbit mAb

Catalog No: #49269

Package Size: #49269-1 50ul #49269-2 100ul

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## Description

|                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
|-----------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Product Name          | Integrin alpha 5 Rabbit mAb                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Host Species          | Recombinant Rabbit                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Clonality             | Monoclonal                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Clone No.             | SR4534                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Purification          | ProA affinity purified                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Applications          | WB IHC ICC/IF                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Species Reactivity    | Hu, Ms, Rt                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Immunogen Description | recombinant protein                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| Conjugates            | Unconjugated                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Other Names           | CD49 antigen-like family member E antibody CD49e antibody Fibronectin receptor subunit alpha antibody Fibronectin receptor, alpha subunit antibody FNRA antibody Integrin alpha 5 (fibronectin receptor alpha) antibody Integrin alpha-5 antibody Integrin alpha-5 light chain antibody Integrin alpha-F antibody Integrin, alpha 5 (fibronectin receptor, alpha polypeptide) antibody ITA5_HUMAN antibody Itga5 antibody Very late activation protein 5, alpha subunit antibody VLA-5 antibody VLA5 antibody VLA5A antibody |
| Accession No.         | Swiss-Prot#:P08648                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Calculated MW         | Predicted band size: 115 kDa                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| SDS-PAGE MW           | Observed band size: 150 kDa                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Formulation           | 1*TBS (pH7.4), 1%BSA, 40%Glycerol. Preservative: 0.05% Sodium Azide.                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Storage               | Store at -20°C                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |

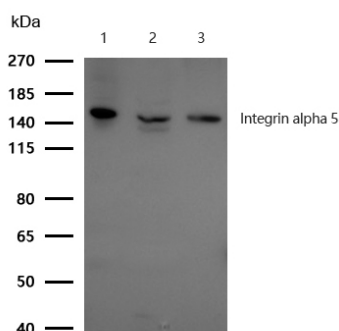
## Application Details

WB: 1:500-1:2000

IHC: 1:50-1:200

ICC/IF: 1:50-1:200

## Images



All lanes: Integrin alpha 5 Rabbit mAb at 1/1k dilution

Lane 1 : Hela whole cell lysates

Lane 2 : JK whole cell lysates Lane 3 : 3T3 whole cell lysates

Lysates/proteins at 20 µg per lane.

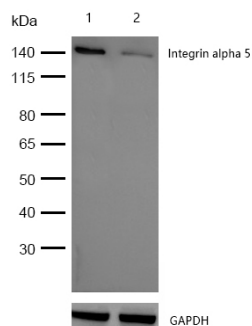
Secondary

All lanes : Goat Anti-Rabbit IgG H&amp;L (HRP) at 1/20000 dilution

Predicted band size: 115 kDa

Observed band size: 150 kDa

Exposure time: 7 seconds

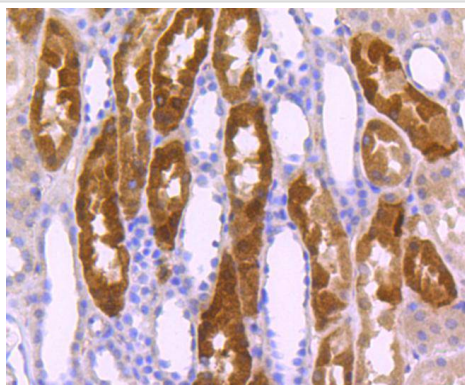


All lanes :Integrin alpha 5 Rabbit mAb at 1/1k dilution

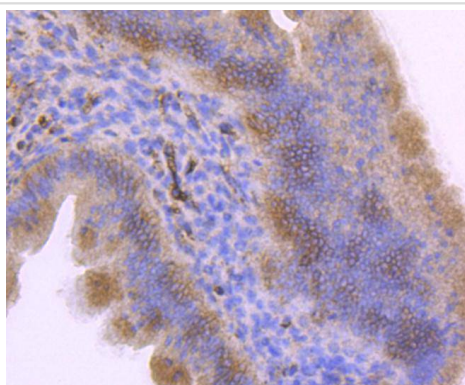
Lane 1 : Wild-type HAP1 cell lysate

Lane 2 : Integrin alpha 5 knockdown HAP1 cell lysate

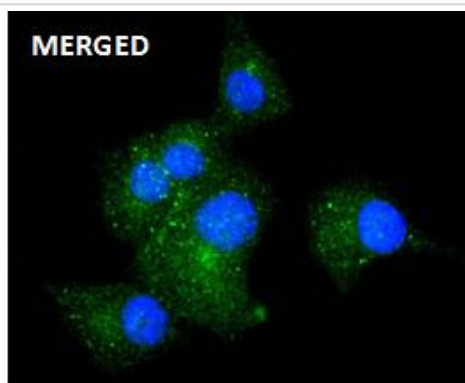
Lysates/proteins at 20 µg per lane.



Formalin-fixed, paraffin-embedded human kidney tissue stained for Integrin alpha 5 using 49269 at 1/100 dilution in immunohistochemical analysis.



Formalin-fixed, paraffin-embedded mouse uterus tissue stained for Integrin alpha 5 using 49269 at 1/100 dilution in immunohistochemical analysis.



Immunocytochemistry/ Immunofluorescence Integrin alpha 5 antibody (49269) ICC/IF staining of Integrin alpha 5 in A549 cells. Cells were fixed with 4% Paraformaldehyde permeabilized with 0.1% Triton X-100.

Samples were incubated with 49269 at a working dilution of 1/100. The secondary antibody was Alexa FluorB 488 goat anti rabbit, used at a dilution of 1/500.

Nuclei were counterstained with DAPI.

## Background

Integrins are heterodimers composed of noncovalently associated transmembrane  $\alpha$  and  $\beta$  subunits. The 16  $\alpha$  and 8  $\beta$  subunits heterodimerize to produce more than 20 different receptors. Most integrin receptors bind ligands that are components of the extracellular matrix, including Fibronectin, Collagen and Vitronectin. Certain integrins can also bind to soluble ligands such as Fibrinogen, or to counterreceptors on adjacent cells such as the intracellular adhesion molecules (ICAMs), leading to aggregation of cells. Ligands serve to cross-link or cluster integrins by binding to adjacent integrin receptors; both receptor clustering and ligand occupancy are necessary for the activation of integrin-mediated responses. In addition to mediating cell adhesion and cytoskeletal organization, integrins function as signaling receptors. Signals transduced by integrins play a role in many biological processes, including cell growth, differentiation, migration and apoptosis.

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Note: This product is for in vitro research use only and is not intended for use in humans or animals.