

# Integrin alpha 5 (ITGA5/CD49e) Rabbit mAb

Catalog No.: A19069 **Recombinant** **9 Publications**

## Basic Information

### Observed MW

150kDa (Full-length)/17kDa (light chain)

### Calculated MW

115kDa

### Category

Primary antibody

### Applications

WB,IHC-P,FC (intra),ELISA

### Cross-Reactivity

Human, Mouse, Rat

### CloneNo number

ARC0370

## Background

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.

## Recommended Dilutions

**WB** 1:1000 - 1:6000

**IHC-P** 1:200 - 1:2000

**FC (intra)** 1:50 - 1:200

### ELISA

Recommended starting concentration is 1 µg/mL. Please optimize the concentration based on your specific assay requirements.

## Immunogen Information

### Gene ID

3678

### Swiss Prot

P08648

### Immunogen

Synthetic peptide. This information is considered to be commercially sensitive.

### Synonyms

FNRA; CD49e; VLA-5; VLA5A; Integrin alpha 5 (ITGA5/CD49e)

## Contact

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## Product Information

### Source

Rabbit

### Isotype

IgG

### Purification

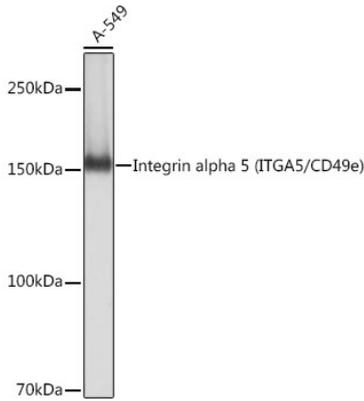
Affinity purification

### Storage

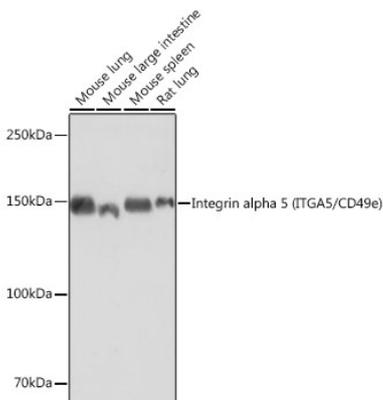
Store at -20°C. Avoid freeze / thaw cycles.

Buffer: PBS containing 50% glycerol and 0.05% BSA, preserved with proclin300 or sodium azide (as specified on the Certificate of Analysis), pH 7.3.

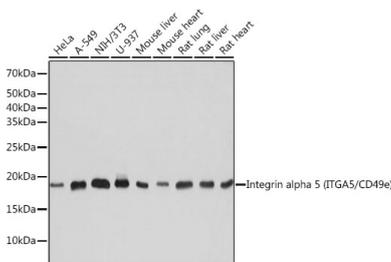
# Validation Data



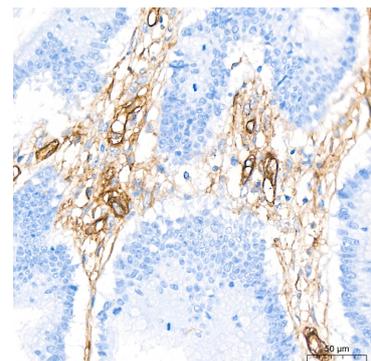
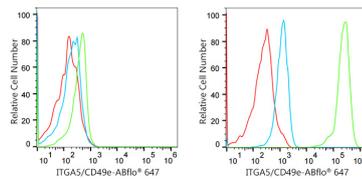
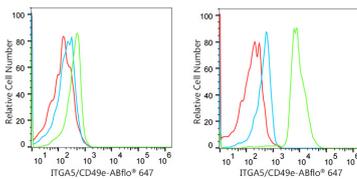
Western blot analysis of lysates from A-549 cells, using Integrin alpha 5 (ITGA5/CD49e) Rabbit mAb (A19069) at 1:1000 dilution.  
 Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution.  
 Lysates/proteins: 25µg per lane.  
 Blocking buffer: 3% nonfat dry milk in TBST.  
 Detection: ECL Basic Kit (RM00020).  
 Exposure time: 1s.



Western blot analysis of various lysates using Integrin alpha 5 (ITGA5/CD49e) Rabbit mAb (A19069) at 1:1000 dilution.  
 Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution.  
 Lysates/proteins: 25µg per lane.  
 Blocking buffer: 3% nonfat dry milk in TBST.  
 Detection: ECL Basic Kit (RM00020).  
 Exposure time: 10s.

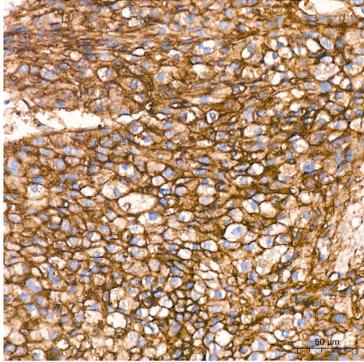


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 Lysates/proteins: 25µg per lane.  
 Blocking buffer: 3% nonfat dry milk in TBST.  
 Detection: ECL Basic Kit (RM00020).  
 Exposure time: 1s.



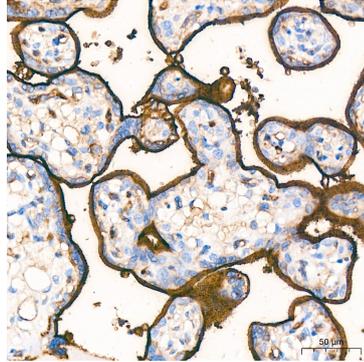
## Validation Data

Flow cytometry:  $1 \times 10^6$  Daudi cells (negative control, left) and K-562 cells (right) were intracellularly-stained with Integrin alpha 5 (ITGA5/CD49e) Rabbit mAb (A19069, 5  $\mu\text{g}/\text{mL}$ , green line) or Rabbit IgG isotype control (AC042, 5  $\mu\text{g}/\text{mL}$ , blue line), followed by Alexa Fluor 647 conjugated goat anti-rabbit pAb (1:600 dilution) staining. Non-fluorescently stained cells were used as blank control (red line).



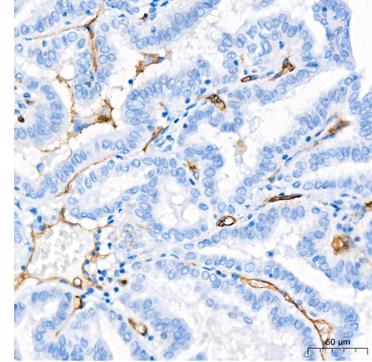
Immunohistochemistry analysis of paraffin-embedded Human liver cancer tissue using Integrin alpha 5 (ITGA5/CD49e) Rabbit mAb (A19069) at a dilution of 1:200 (40x lens). High pressure antigen retrieval performed with 0.01M Citrate buffer (pH 6.0) prior to IHC staining.

Flow cytometry:  $1 \times 10^6$  Daudi cells (negative control, left) and U-87MG cells (right) were intracellularly-stained with Integrin alpha 5 (ITGA5/CD49e) Rabbit mAb (A19069, 5  $\mu\text{g}/\text{mL}$ , green line) or Rabbit IgG isotype control (AC042, 5  $\mu\text{g}/\text{mL}$ , blue line), followed by Alexa Fluor 647 conjugated goat anti-rabbit pAb (1:600 dilution) staining. Non-fluorescently stained cells were used as blank control (red line).

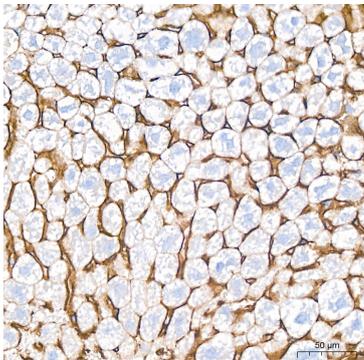


Immunohistochemistry analysis of paraffin-embedded Human placenta tissue using Integrin alpha 5 (ITGA5/CD49e) Rabbit mAb (A19069) at a dilution of 1:200 (40x lens). High pressure antigen retrieval performed with 0.01M Citrate buffer (pH 6.0) prior to IHC staining.

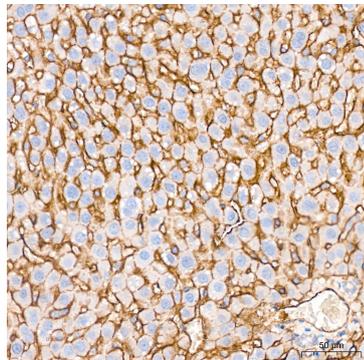
Immunohistochemistry analysis of paraffin-embedded Human colon carcinoma tissue using Integrin alpha 5 (ITGA5/CD49e) Rabbit mAb (A19069) at a dilution of 1:200 (40x lens). High pressure antigen retrieval performed with 0.01M Citrate buffer (pH 6.0) prior to IHC staining.



Immunohistochemistry analysis of paraffin-embedded Human thyroid cancer tissue using Integrin alpha 5 (ITGA5/CD49e) Rabbit mAb (A19069) at a dilution of 1:200 (40x lens). High pressure antigen retrieval performed with 0.01M Citrate buffer (pH 6.0) prior to IHC staining.



Immunohistochemistry analysis of paraffin-embedded Mouse liver tissue using Integrin alpha 5 (ITGA5/CD49e) Rabbit mAb (A19069) at a dilution of 1:200 (40x lens). High pressure antigen retrieval performed with 0.01M Citrate buffer (pH 6.0) prior to IHC staining.



Immunohistochemistry analysis of paraffin-embedded Rat liver tissue using Integrin alpha 5 (ITGA5/CD49e) Rabbit mAb (A19069) at a dilution of 1:200 (40x lens). High pressure antigen retrieval performed with 0.01M Citrate buffer (pH 6.0) prior to IHC staining.