Integrin alpha 5 (ITGA5/CD49e) Rabbit mAb

ABclonal www.abclonal.com

Catalog No.: A19069 Recombinant 7 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

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

FC (intra) 1:50 - 1:200

Recommended starting **ELISA**

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

Immunogen Information

Gene ID Swiss Prot 3678 P08648

Immunogen

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

Synonyms

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

Contact

a		400-999-6126
\bowtie		cn.market@abclonal.com.cn
\odot	T	www.abclonal.com.cn

Product Information

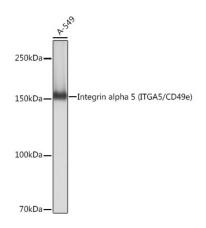
Source Isotype **Purification** Rabbit IgG Affinity purification

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.

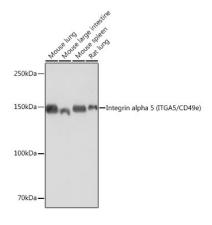
Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution.

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.

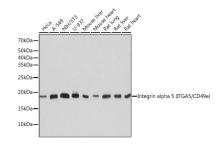
Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution.

Lysates/proteins: 25µg per lane.

Blocking buffer: 3% nonfat dry milk in TBST.

Detection: ECL Basic Kit (RM00020).

Exposure time: 10s.



Western blot analysis of various lysates using Integrin alpha 5 (ITGA5/CD49e) Rabbit mAb (A19069) at 1:1000 dilution.

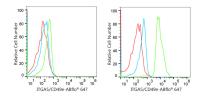
Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution.

Lysates/proteins: 25µg per lane.

Blocking buffer: 3% nonfat dry milk in TBST.

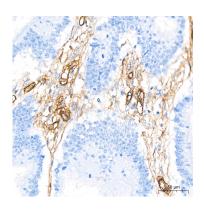
Detection: ECL Basic Kit (RM00020).

Exposure time: 1s.

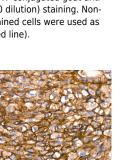




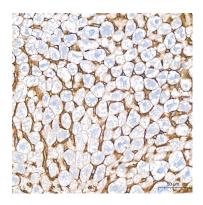




Flow cytometry:1X10^6 Daudi cells (negative control,left) and K-562 cells (right) were intracellularly-stained with Integrin alpha 5 (ITGA5/CD49e) Rabbit mAb(A19069, 5 µg/mL,green line) or Rabbit IgG isotype control (AC042, 5 µg/mL,blue line),followed by Alexa Fluor 647 conjugated goat antirabbit pAb(1:600 dilution) staining. Nonfluorescently stained cells were used as blank control (red line).

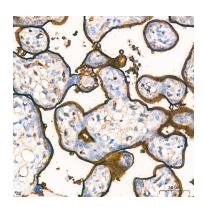


Immunohistochemistry analysis of paraffinembedded Human liver cancer tissue using Integrin alpha 5 (ITGA5/CD49e) Rabbit mAb (A19069) at a dilution of 1:200 (40x lens). High pressure antigen retrieval performed with 0.01M Citrate buffer (pH 6.0) prior to IHC staining.

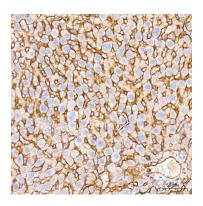


Immunohistochemistry analysis of paraffinembedded Mouse liver tissue using Integrin alpha 5 (ITGA5/CD49e) Rabbit mAb (A19069) at a dilution of 1:200 (40x lens). High pressure antigen retrieval performed with 0.01M Citrate buffer (pH 6.0) prior to IHC staining.

Flow cytometry:1X10^6 Daudi cells (negative control,left) and U-87MG cells (right) were intracellularly-stained with Integrin alpha 5 (ITGA5/CD49e) Rabbit mAb(A19069, 5 µg/mL,green line) or Rabbit IgG isotype control (AC042, 5 µg/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).

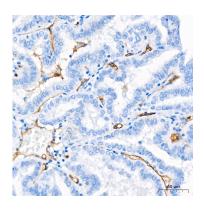


Immunohistochemistry analysis of paraffinembedded Human placenta tissue using Integrin alpha 5 (ITGA5/CD49e) Rabbit mAb (A19069) at a dilution of 1:200 (40x lens). High pressure antigen retrieval performed with 0.01M Citrate buffer (pH 6.0) prior to IHC staining.



Immunohistochemistry analysis of paraffinembedded 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.

Immunohistochemistry analysis of paraffinembedded 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 paraffinembedded 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.