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Integrin alpha 5 (ITGA5/CD49e) Rabbit mAb

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
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

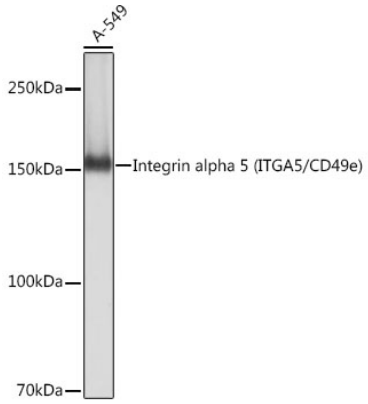
Source
Rabbit

Isotype
IgG

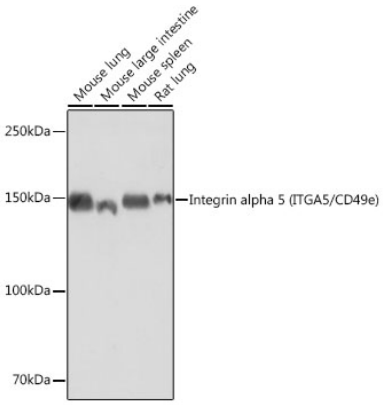
Purification
Affinity purification

Storage
Store at -20℃. Avoid freeze / thaw cycles.
Buffer: PBS with 0.02% sodium azide,0.05% BSA,50% glycerol,pH7.3.

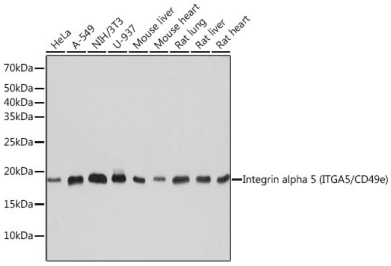
Validation Data



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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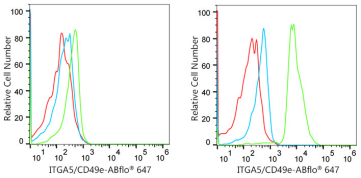
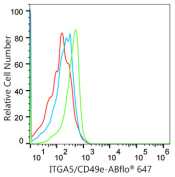
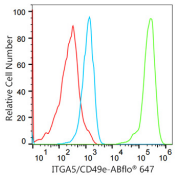
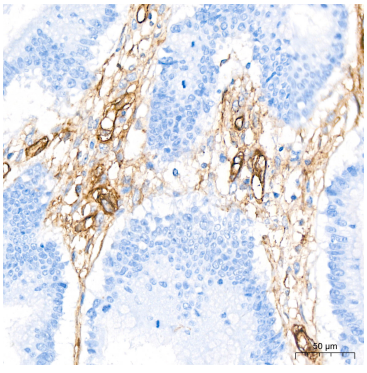






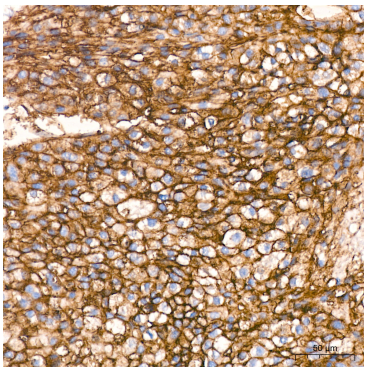


Validation Data

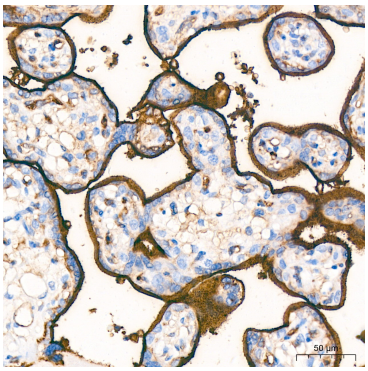
Flow cytometry:1X10^6 Daudi cells (negative control,left) and K-562 cells (right) were intracellularly-stained with Integrin alpha 5 (ITGA5/CD49e) Rabbit mAb(A19069, 5 µg/mL,green line) or Rabbit IgG isotype control (AC042, 5 µg/mL,blue line),followed by Alexa Fluor 647 conjugated goat anti-rabbit pAb(1:600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

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).

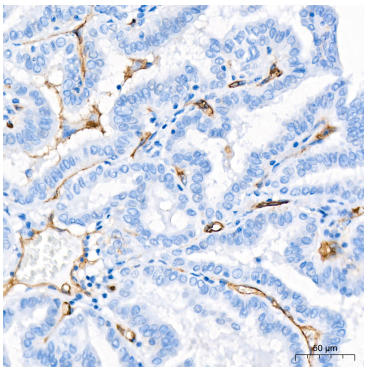
Immunohistochemistry analysis of paraffin-embedded Human colon carcinoma tissue using Integrin alpha 5 (ITGA5/CD49e) Rabbit mAb (A19069) at a dilution of 1:200 (40x lens). High pressure antigen retrieval performed with 0.01M Citrate buffer (pH 6.0) prior to IHC staining.



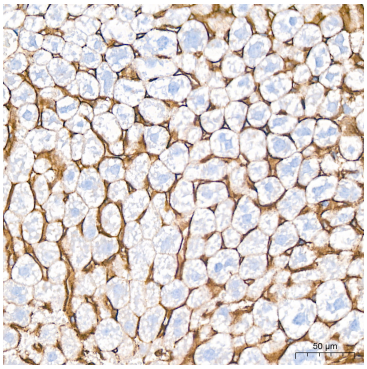
Immunohistochemistry analysis of paraffin-embedded Human liver cancer tissue using Integrin alpha 5 (ITGA5/CD49e) Rabbit mAb (A19069) at a dilution of 1:200 (40x lens). High pressure antigen retrieval performed with 0.01M Citrate buffer (pH 6.0) prior to IHC staining.



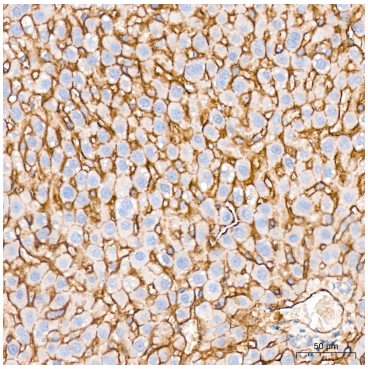
Immunohistochemistry analysis of paraffin-embedded Human placenta tissue using Integrin alpha 5 (ITGA5/CD49e) Rabbit mAb (A19069) at a dilution of 1:200 (40x lens). High pressure antigen retrieval performed with 0.01M Citrate buffer (pH 6.0) prior to IHC staining.



Immunohistochemistry analysis of paraffin-embedded Human 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.