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Integrin alpha V (ITGAV/CD51) Rabbit mAb

Catalog No.: A19071 Recombinant 9 Publications

Basic Information

Observed MW
140kDa

Calculated MW
116kDa

Category
Primary antibody

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

Cross-Reactivity
Human, Mouse, Rat

CloneNo number
ARC50621

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 V subunit. This subunit associates with beta 1, beta 3, beta 5, beta 6 and beta 8 subunits. The heterodimer consisting of alpha V and beta 3 subunits is also known as the vitronectin receptor. This integrin may regulate angiogenesis and cancer progression. Alternative splicing results in multiple transcript variants. 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	1:1000 - 1:4000
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
3685

Swiss Prot
P06756

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

Synonyms
CD51; MSK8; VNRA; VTNR; Integrin alpha V (ITGAV/CD51)

Contact

400-999-6126

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Product Information

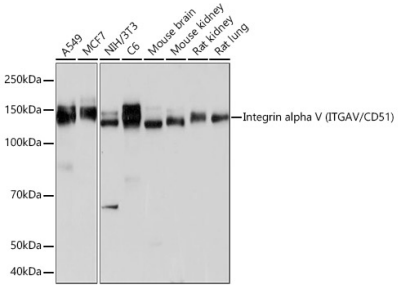
Source
Rabbit

Isotype
IgG

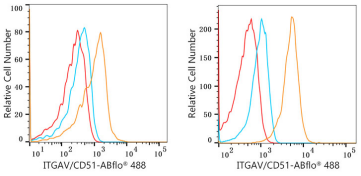
Purification
Affinity purification

Storage
Store at -20℃. 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.

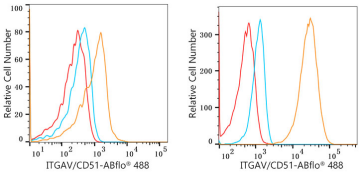
Validation Data



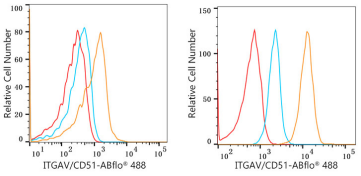
Western blot analysis of various lysates using Integrin alpha V (ITGAV/CD51) Rabbit mAb (A19071) at 1:1000 dilution.
Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution.
Lysates/proteins: 25µg per lane.
Blocking buffer: 3% nonfat dry milk in TBST.
Detection: ECL Basic Kit (RM00020).
Exposure time: 1s.



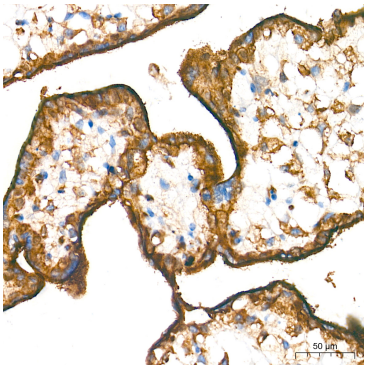
Flow cytometry:1X10^6 Daudi cells (negative control,left) and HUVEC cells (right) were intracellularly-stained with Integrin alpha V (ITGAV/CD51) Rabbit mAb(A19071, 2.5 µg/mL,orange line) or Rabbit IgG isotype control (AC042, 2.5 µg/mL,blue line),followed by FITC conjugated goat anti-rabbit pAb(1:200 dilution) staining. Non-fluorescently stained cells were used as blank control (red line).



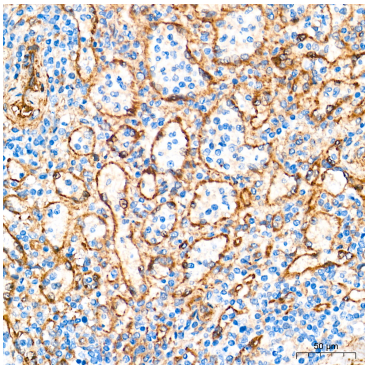
Flow cytometry:1X10^6 Daudi cells cells (negative control,left) and BEWO cells (right) were intracellularly-stained with Integrin alpha V (ITGAV/CD51) Rabbit mAb(A19071, 2.5 µg/mL,orange line) or Rabbit IgG isotype control (AC042, 2.5 µg/mL,blue line),followed by FITC conjugated goat anti-rabbit pAb(1:200 dilution) staining. Non-fluorescently stained cells were used as blank control (red line).



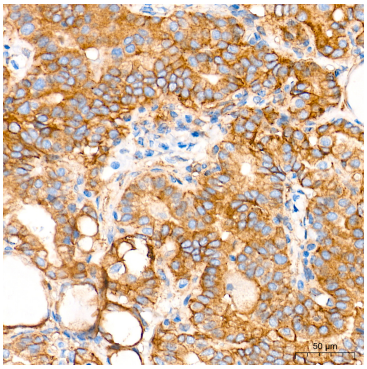
Flow cytometry:1X10^6 Daudi cells (negative control,left) and U-251MG cells (right) were intracellularly-stained with Integrin alpha V (ITGAV/CD51) Rabbit mAb(A19071, 2.5 µg/mL,orange line) or Rabbit IgG isotype control (AC042, 2.5 µg/mL,blue line),followed by FITC conjugated goat anti-rabbit pAb(1:200 dilution) staining. Non-fluorescently stained cells were used as blank control (red line).



Immunohistochemistry analysis of paraffin-embedded Human placenta tissue using Integrin alpha V (ITGAV/CD51) Rabbit mAb (A19071) at a dilution of 1:2000 (40x lens). High pressure antigen retrieval performed with 0.01M Tris-EDTA Buffer (pH 9.0) prior to IHC staining.

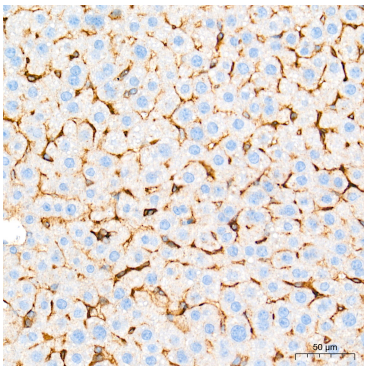


Immunohistochemistry analysis of paraffin-embedded Human spleen tissue using Integrin alpha V (ITGAV/CD51) Rabbit mAb (A19071) at a dilution of 1:2000 (40x lens). High pressure antigen retrieval performed with 0.01M Tris-EDTA Buffer (pH 9.0) prior to IHC staining.

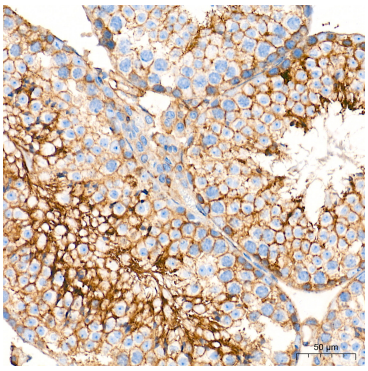


Immunohistochemistry analysis of paraffin-embedded Human thyroid cancer tissue using Integrin alpha V (ITGAV/CD51) Rabbit mAb (A19071) at a dilution of 1:2000 (40x lens). High pressure antigen retrieval performed with 0.01M Tris-EDTA Buffer (pH 9.0) prior to IHC staining.

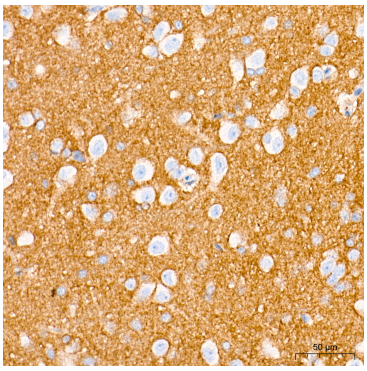
Validation Data



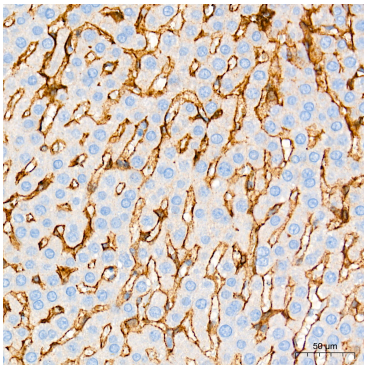
Immunohistochemistry analysis of paraffin-embedded Mouse liver tissue using Integrin alpha V (ITGAV/CD51) Rabbit mAb (A19071) at a dilution of 1:2000 (40x lens). High pressure antigen retrieval performed with 0.01M Tris-EDTA Buffer (pH 9.0) prior to IHC staining.



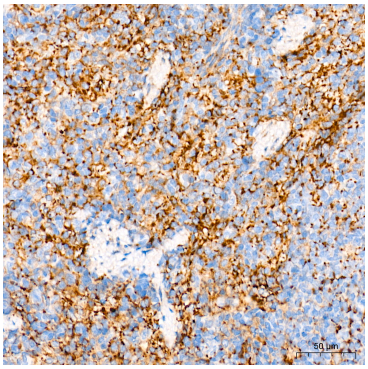
Immunohistochemistry analysis of paraffin-embedded Mouse testis tissue using Integrin alpha V (ITGAV/CD51) Rabbit mAb (A19071) at a dilution of 1:2000 (40x lens). High pressure antigen retrieval performed with 0.01M Tris-EDTA Buffer (pH 9.0) prior to IHC staining.



Immunohistochemistry analysis of paraffin-embedded Rat brain tissue using Integrin alpha V (ITGAV/CD51) Rabbit mAb (A19071) at a dilution of 1:2000 (40x lens). High pressure antigen retrieval performed with 0.01M Tris-EDTA Buffer (pH 9.0) prior to IHC staining.



Immunohistochemistry analysis of paraffin-embedded Rat liver tissue using Integrin alpha V (ITGAV/CD51) Rabbit mAb (A19071) at a dilution of 1:2000 (40x lens). High pressure antigen retrieval performed with 0.01M Tris-EDTA Buffer (pH 9.0) prior to IHC staining.



Immunohistochemistry analysis of paraffin-embedded Rat spleen tissue using Integrin alpha V (ITGAV/CD51) Rabbit mAb (A19071) at a dilution of 1:2000 (40x lens). High pressure antigen retrieval performed with 0.01M Tris-EDTA Buffer (pH 9.0) prior to IHC staining.