A19071

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Integrin alpha V (ITGAV/CD51) Rabbit mAb

Catalog No.: A19071 Recombinant 8 Publications

Basic Information

Observed MW
140kDa

Calculated MW
116kDa

Category
SMab Recombinant Monoclonal Antibody

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

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
A synthetic peptide corresponding to a sequence within amino acids 949-1048 of human Integrin alpha V (ITGAV/CD51) (NP_002201.2).

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

Product Information

Source
Rabbit

Isotype
IgG

Purification
Affinity purification

Storage
Store at -20℃. Avoid freeze / thaw cycles.
Buffer: PBS with 0.05% proclin300,0.05% BSA,50% glycerol,pH7.3.

Contact

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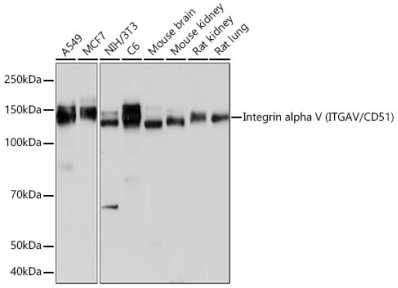
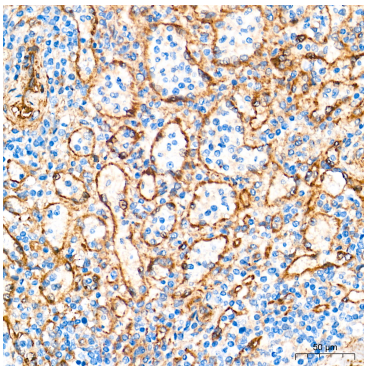
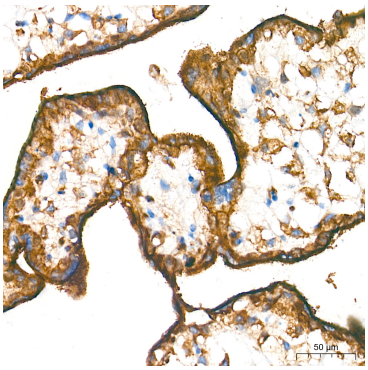
Validation Data



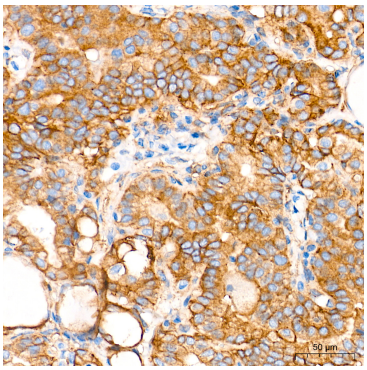
Western blot analysis of various lysates using Integrin alpha V (ITGAV/CD51) Rabbit mAb (A19071) at 1:1000 dilution.
Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution.
Lysates/proteins: 25µg per lane.
Blocking buffer: 3% nonfat dry milk in TBST.
Detection: ECL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



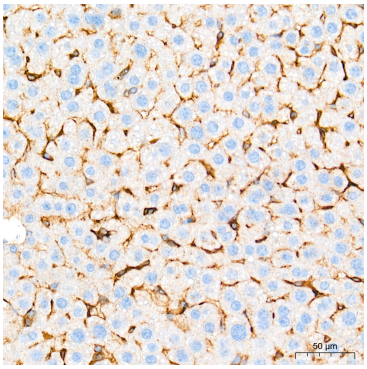
Immunohistochemistry analysis of paraffin-embedded Human spleen tissue using Integrin alpha V (ITGAV/CD51) Rabbit mAb (A19071) at a dilution of 1:2000 (40x lens). High pressure antigen retrieval performed with 0.01M Tris-EDTA Buffer (pH 9.0) prior to IHC staining.



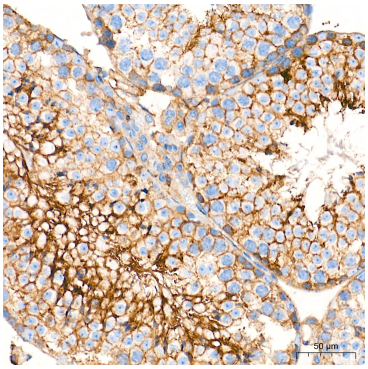
Immunohistochemistry analysis of paraffin-embedded Human placenta tissue using Integrin alpha V (ITGAV/CD51) Rabbit mAb (A19071) at a dilution of 1:2000 (40x lens). High pressure antigen retrieval performed with 0.01M Tris-EDTA Buffer (pH 9.0) prior to IHC staining.



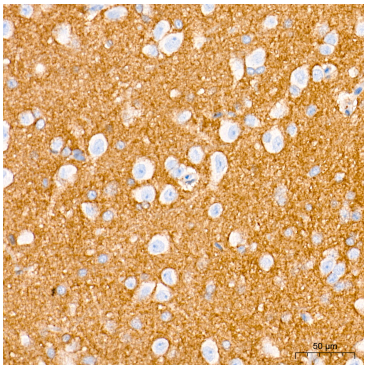
Immunohistochemistry analysis of paraffin-embedded Human thyroid cancer tissue using Integrin alpha V (ITGAV/CD51) Rabbit mAb (A19071) at a dilution of 1:2000 (40x lens). High pressure antigen retrieval performed with 0.01M Tris-EDTA Buffer (pH 9.0) prior to IHC staining.



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.

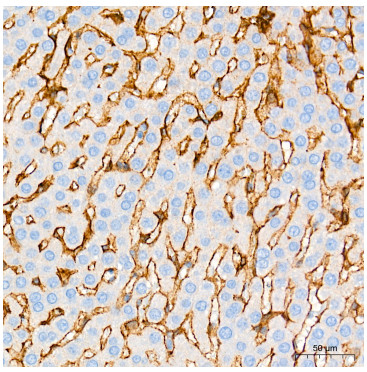


Immunohistochemistry analysis of paraffin-embedded Mouse testis tissue using Integrin alpha V (ITGAV/CD51) Rabbit mAb (A19071) at a dilution of 1:2000 (40x lens). High pressure antigen retrieval performed with 0.01M Tris-EDTA Buffer (pH 9.0) prior to IHC staining.

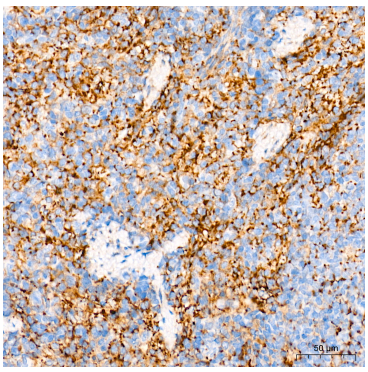


Immunohistochemistry analysis of paraffin-embedded Rat brain tissue using Integrin alpha V (ITGAV/CD51) Rabbit mAb (A19071) at a dilution of 1:2000 (40x lens). High pressure antigen retrieval performed with 0.01M Tris-EDTA Buffer (pH 9.0) prior to IHC staining.

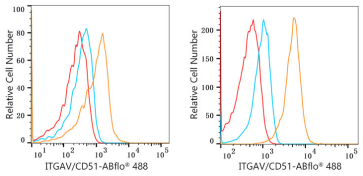
Validation Data



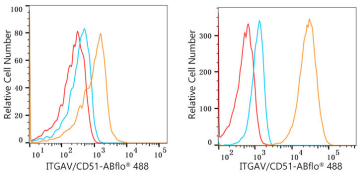
Immunohistochemistry analysis of paraffin-embedded Rat liver tissue using Integrin alpha V (ITGAV/CD51) Rabbit mAb (A19071) at a dilution of 1:2000 (40x lens). High pressure antigen retrieval performed with 0.01M Tris-EDTA Buffer (pH 9.0) prior to IHC staining.



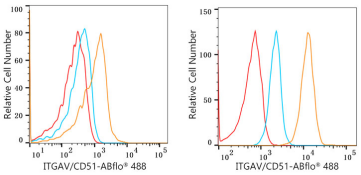
Immunohistochemistry analysis of paraffin-embedded Rat spleen tissue using Integrin alpha V (ITGAV/CD51) Rabbit mAb (A19071) at a dilution of 1:2000 (40x lens). High pressure antigen retrieval performed with 0.01M Tris-EDTA Buffer (pH 9.0) prior to IHC staining.



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).