

Collagen Type IV Mouse mAb

Catalog No.: A24145

Basic Information

Observed MW

Calculated MW

161kDa

Category

Primary antibody

Applications

IHC-P

Cross-Reactivity

Human

CloneNo number

AMC0671

Background

This gene encodes a type IV collagen alpha protein. Type IV collagen proteins are integral components of basement membranes. This gene shares a bidirectional promoter with a paralogous gene on the opposite strand. The protein consists of an amino-terminal 7S domain, a triple-helix forming collagenous domain, and a carboxy-terminal non-collagenous domain. It functions as part of a heterotrimer and interacts with other extracellular matrix components such as perlecan, proteoglycans, and laminins. In addition, proteolytic cleavage of the non-collagenous carboxy-terminal domain results in a biologically active fragment known as arresten, which has anti-angiogenic and tumor suppressor properties. Mutations in this gene cause porencephaly, cerebrovascular disease, and renal and muscular defects. Alternative splicing results in multiple transcript variants.

Recommended Dilutions

IHC-P 1:100 - 1:200

Immunogen Information

Gene ID

1282

Swiss Prot

P02462

Immunogen

Recombinant protein (or fragment). This information is considered to be commercially sensitive.

Synonyms

BSVD; BSVD1; RATOR; PADMAL; COL4A1s

Contact

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Product Information

Source

Mouse

Isotype

IgG

Purification

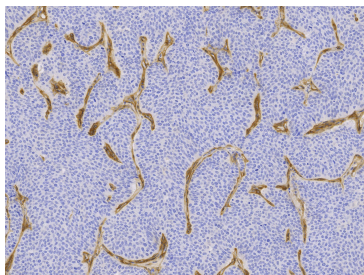
Affinity purification

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



Immunohistochemistry analysis of paraffin-embedded Human lung cancer tissue using Collagen Type IV Mouse mAb (A24145) at a dilution of 1:100 (20x lens). High pressure antigen retrieval performed with 0.01M Tris-EDTA Buffer (pH 9.0) prior to IHC staining.