

A Reliable Research Partner in Life Science and Medicine

# **Recombinant Collagen IV Monoclonal Antibody**

catalog number: AN301106L

Note: Centrifuge before opening to ensure complete recovery of vial contents.

### Description

Reactivity Human

**Immunogen** Recombinant Human Collagen IV protein

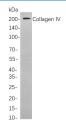
Host Rabbit Isotype IgG,ĸ Clone B861 **Purification** Protein A

Buffer PBS, 50% glycerol, 0.05% Proclin 300, 0.05% protein protectant.

#### **Applications Recommended Dilution**

1:200-1000 **IHC** 1:1000-5000 WB

#### **Data**



Western Blot with Recombinant Collagen IV Monoclonal

Immunohistochemistry of paraffin-embedded human Antibody at dilution of 1:1000 dilution. Lane A: Hela cells. appendix tissue using Recombinant Collagen IV Monoclonal Antibody at dilution of 1:200.

Observed-MW:200 kDa Calculated-MW:160 kDa

# **Preparation & Storage**

Storage Store at -20°C Valid for 12 months. Avoid freeze / thaw cycles.

**Shipping** Ice bag

## **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 noncollagenous domain. It functions as part of a heterotrimer and interacts with other extracellular matrix components such as perlecans, proteoglycans, and laminins. In addition, proteolytic cleavage of the non-collagenous carboxyterminal 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.

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