

COL4A1 Polyclonal Antibody

Description

Product type Primary Antibody

BT-AP02082 Code

Host Rabbit

IgG Isotype

Size 20ul, 50ul, 100ul

The antiserum was produced against synthesized peptide derived from human Collagen IV. AA range:11-Immunogen

Mol wt 160615

Species reactivity Human, Mouse

Clonality Polyclonal

WB, IHC-p, ELISA Recommended application

Concentration 1 mg/ml

Full name COL4A1 Antibody

COL4A1; Collagen alpha-1(IV) chain Synonyms

This product is for research use only, not for use in human, therapeutic or diagnostic procedure.

Background

COL4A1 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 triplehelix 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 perlecans, 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 COL4A1 cause porencephaly, cerebrovascular disease, and renal and muscular defects. Alternative splicing results in multiple transcript variants.

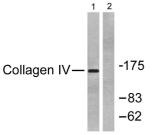
Recommended Dilution

WB: 1: 500 - 1: 2000 IHC: 1: 100 - 1: 300 ELISA: 1: 20000

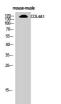
Not yet tested in other applications.

Images

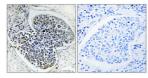
Western Blot analysis of mouse-musle cells using COL4A1 Polyclonal Antibody diluted at 1:500



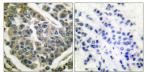
Western blot analysis of lysates from HeLa cells, using Collagen IV Antibody. The lane on the right is blocked with the synthesized peptide.



Western Blot analysis of mouse-musle cells using COL4A1 Polyclonal Antibody diluted at 1:500



 $Immunohistochemical \ analysis \ of paraffin-embedded \ Human \ lung \ cancer. \ Antibody \ was \ diluted \ at$ $1:100(4^{\circ} \ overnight). \ High-pressure \ and \ temperature \ Tris-EDTA, pH8.0 \ was \ used \ for \ antigen \ retrieval.$ Negetive contrl (right) obtaned from antibody was pre-absorbed by immunogen peptide.



Immunohistochemistry analysis of paraffin-embedded human breast carcinoma tissue, using Collagen IV Antibody. The picture on the right is blocked with the synthesized peptide.

Storage

-20°C for one year

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