

## COL4A1 抗原

中文名称： COL4A1 抗原

英文名称： COL4A1 Antigen

相关类别： 抗原

储 存： 冷冻 (-20℃)

### 概述

Synthetic peptide corresponding to a region derived from 1648-1662 amino acids of human collagen type IV alpha 1 chain

### 技术规格

|                       |   |
|-----------------------|---|
| <b>Full name</b>      | collagen type IV alpha 1 chain  |
| <b>Synonyms</b>       | BSVD; RATOR   |
| <b>Swissprot</b>      | P02462  |
| <b>Gene Accession</b> | NP_001836   |
| <b>Background</b>     | 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 7 S 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.