ELK Biotechnology

# Collagen IV α2 (Cleaved-Ser1485) rabbit pAb

## Cat No.:ES19980

**For research use only**

### Overview

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| **Product Name** | Collagen IV α2 (Cleaved-Ser1485) rabbit pAb |
| **Host species** | Rabbit |
| **Applications** | WB; ELISA |
| **Species Cross-Reactivity** | Human;Mouse |
| **Recommended dilutions** | WB 1:1000-2000 ELISA 1:5000-20000 |
| **Immunogen** | Synthesized peptide derived from human Collagen IV α2 (Cleaved-Ser1485) |
| **Specificity** | This antibody detects endogenous levels of Human,Mouse Collagen IV α2 (Cleaved-Ser1485, protein was cleaved amino acid sequence between 1485-1486 ) |
| **Formulation** | Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide. |
| **Storage** | Store at -20℃. Avoid repeated freeze-thaw cycles. |
| **Protein Name** | Collagen IV α2 (Cleaved-Ser1485) |
| **Gene Name** | COL4A2 |
| **Cellular localization** | Secreted, extracellular space, extracellular matrix, basement membrane. |
| **Purification** | The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen. |
| **Clonality** | Polyclonal |
| **Concentration** | 1 mg/ml |
| **Observed band** | 160 190kD |
| **Human Gene ID** | 1284 |
| **Human Swiss-Prot Number** | P08572 |
| **Alternative Names** | Collagen alpha-2(IV) chain [Cleaved into: Canstatin] |
| **Background** | domain:Alpha chains of type IV collagen have a non-collagenous domain (NC1) at their C-terminus, frequent interruptions of the G-X-Y repeats in the long central triple-helical domain (which may cause flexibility in the triple helix), and a short N-terminal triple-helical 7S domain.,function:Type IV collagen is |

the major structural component of glomerular basement membranes (GBM), forming a 'chicken-wire' meshwork together with laminins, proteoglycans and entactin/nidogen. Potently inhibits angiogenesis and tumor growth.,PTM:Prolines at the third position of the tripeptide repeating unit (G-X-Y) are hydroxylated in some or all of the chains.,PTM:The trimeric structure of the NC1 domains may be stabilized by covalent bonds between Lys and Met residues.,PTM:Type IV collagens contain numerous cysteine residues which are involved in inter- and intramolecular disulfide bonding. 12 of these, located in the NC1 domain, are conserved in all known type IV collagens.,similarity:Belongs to the type IV collagen family.,similarity:Contains 1 collagen IV NC1 (C-terminal non-collagenous) domain.,subunit:There are six type IV collagen isoforms, alpha 1(IV)-alpha 6(IV), each of which can form a triple helix structure with 2 other chains to generate type IV collagen network.,