



# Collagen IV $\alpha$ 2 (Cleaved-Ser1485) rabbit pAb

<b>Catalog No</b>	YP-Ab-16812
<b>Isotype</b>	IgG
<b>Reactivity</b>	Human;Mouse
<b>Applications</b>	WB; ELISA
<b>Gene Name</b>	COL4A2
<b>Protein Name</b>	Collagen IV $\alpha$ 2 (Cleaved-Ser1485)
<b>Immunogen</b>	Synthesized peptide derived from human Collagen IV $\alpha$ 2 (Cleaved-Ser1485)
<b>Specificity</b>	This antibody detects endogenous levels of Human,Mouse Collagen IV $\alpha$ 2 (Cleaved-Ser1485, protein was cleaved amino acid sequence between 1485-1486 )
<b>Formulation</b>	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
<b>Source</b>	Polyclonal, Rabbit,IgG
<b>Purification</b>	The antibody was affinity-purified from rabbit serum by affinity-chromatography using specific immunogen.
<b>Dilution</b>	WB 1:1000-2000 ELISA 1:5000-20000
<b>Concentration</b>	1 mg/ml
<b>Purity</b>	$\geq 90\%$
<b>Storage Stability</b>	-20°C/1 year
<b>Synonyms</b>	Collagen alpha-2(IV) chain [Cleaved into: Canstatin]
<b>Observed Band</b>	160 190kD
<b>Cell Pathway</b>	Secreted, extracellular space, extracellular matrix, basement membrane.
<b>Tissue Specificity</b>	
<b>Function</b>	negative regulation of angiogenesis, extracellular matrix organization, extracellular structure organization, regulation of angiogenesis,
<b>Background</b>	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.,

**matters needing attention**

Avoid repeated freezing and thawing!

**Usage suggestions**

This product can be used in immunological reaction related experiments. For more information, please consult technical personnel.

## Products Images