

**Collagen XVIII  $\alpha$ 1 (Cleaved-His1572) rabbit pAb**

<b>Catalog No :</b>	YC0142
<b>Reactivity :</b>	Human;Mouse
<b>Applications :</b>	WB;ELISA
<b>Target :</b>	Collagen XVIII $\alpha$ 1
<b>Fields :</b>	>>Protein digestion and absorption
<b>Gene Name :</b>	COL18A1
<b>Protein Name :</b>	Collagen XVIII $\alpha$ 1 (Cleaved-His1572)
<b>Human Gene Id :</b>	80781
<b>Human Swiss Prot No :</b>	P39060
<b>Mouse Gene Id :</b>	12822
<b>Mouse Swiss Prot No :</b>	P39061
<b>Immunogen :</b>	Synthesized peptide derived from human Collagen XVIII $\alpha$ 1 (Cleaved-His1572)
<b>Specificity :</b>	This antibody detects endogenous levels of Human,Mouse Collagen XVIII $\alpha$ 1 (Cleaved-His1572, protein was cleaved amino acid sequence between 1571-1572 )
<b>Formulation :</b>	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
<b>Source :</b>	Polyclonal, Rabbit,IgG
<b>Dilution :</b>	WB 1:1000-2000 ELISA 1:5000-20000
<b>Purification :</b>	The antibody was affinity-purified from rabbit serum by affinity-chromatography using specific immunogen.
<b>Concentration :</b>	1 mg/ml

**Storage Stability :** -15°C to -25°C/1 year(Do not lower than -25°C)

**Observed Band :** 20 200kD

**Background :** This gene encodes the alpha chain of type XVIII collagen. This collagen is one of the multiplexins, extracellular matrix proteins that contain multiple triple-helix domains (collagenous domains) interrupted by non-collagenous domains. A long isoform of the protein has an N-terminal domain that is homologous to the extracellular part of frizzled receptors. Proteolytic processing at several endogenous cleavage sites in the C-terminal domain results in production of endostatin, a potent antiangiogenic protein that is able to inhibit angiogenesis and tumor growth. Mutations in this gene are associated with Knobloch syndrome. The main features of this syndrome involve retinal abnormalities, so type XVIII collagen may play an important role in retinal structure and in neural tube closure. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Dec 2014],

**Function :** disease:Defects in COL18A1 are a cause of Knobloch syndrome (KNO) [MIM:267750]. KNO is an autosomal recessive disorder defined by the occurrence of high myopia, vitreoretinal degeneration with retinal detachment, macular abnormalities and occipital encephalocele.,function:COLA18A probably plays a major role in determining the retinal structure as well as in the closure of the neural tube.,function:Endostatin potently inhibits endothelial cell proliferation and angiogenesis. May inhibit angiogenesis by binding to the heparan sulfate proteoglycans involved in growth factor signaling.,polymorphism:There is an association between a polymorphism in position 1675 and prostate cancer. Heterozygous Asn-1675 individuals have a 2.5 times increased chance of developing prostate cancer as compared with homozygous Asp-1675 individuals.,PTM:Prolines at the third position of the tripeptide repeating un

**Subcellular Location :** Secreted, extracellular space, extracellular matrix . Secreted, extracellular space, extracellular matrix, basement membrane .; [Non-collagenous domain 1]: Secreted, extracellular space, extracellular matrix, basement membrane . Secreted .; [Endostatin]: Secreted . Secreted, extracellular space, extracellular matrix, basement membrane .

**Expression :** Present in multiple organs with highest levels in liver, lung and kidney.

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