

Rabbit Anti-Endostatin antibody

SL0547R

Product Name	Endostatin
Chinese Name	内皮抑素/内皮他丁抗体
Alias	Collagen XV alpha 1; Alpha 1 collagen type 18 (XVIII)(COL18A1); Alpha 1 type XVIII collagen; COL18A1; Collagen alpha 1(XVIII) chain; Collagen type XVIII alpha 1; FLJ27325; KNO; MGC74745; COL18A1; COIA1_HUMAN; Antiangiogenic agent; COIA1_HUMAN; COL15A1; COL18A1; Collagen alpha 1(XV) chain; Collagen alpha-1(XV) chain; Collagen type XV proteoglycan; Collagen type XVIII alpha 1; Collagen XV, alpha 1 polypeptide; Collagen, type XV, alpha 1; Endostatin; Endostatin XV; FLJ34914; FLJ38566; KNO1; KS; Multi functional protein MFP; OTTHUMP00000021782; OTTHUMP00000115472; OTTHUMP00000115473.
Research Area	Tumour immunology Growth factors and hormones
Immunogen Species	Rabbit
Clonality	Polyclonal
React Species	Human, Mouse, (predicted: Rat,) WB=1:500-2000,IHC-P=1:100-500,IHC-F=1:100-500,IF=1:100-500 (Paraffin sections need antigen repair)
Applications	not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Theoretical molecular weight	20/190kDa
Cellular localization	Extracellular matrix Secretory protein
Form	Liquid
Concentration	1mg/ml
immunogen	KLH conjugated synthetic peptide derived from human Endostatin: 1581-1680/1754
Lsotype	IgG
Purification	affinity purified by Protein A
Buffer	1M TBS(pH7.4) with 1% BSA, 3% Proclin300 and 50% Glycerol.

Solution

Storage Shipped at 4°C. Store at -20 °C for one year. Avoid repeated freeze/thaw cycles.

Attention This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.

PubMed [PubMed](#)

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. The proteolytically produced C-terminal fragment of type XVIII collagen is endostatin, a potent antiangiogenic protein. 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. Two transcript variants encoding different isoforms have been found for this gene.

Function:

COLA18A probably plays a major role in determining the retinal structure as well as in the closure of the neural tube.

Endostatin potently inhibits endothelial cell proliferation and angiogenesis. May inhibit angiogenesis by binding to the heparan sulfate proteoglycans involved in growth factor signaling.

Subcellular Location:

Product Detail Secreted, extracellular space, extracellular matrix.

Tissue Specificity:

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

Post-translational modifications:

Prolines at the third position of the tripeptide repeating unit (G-X-Y) are hydroxylated in some or all of the chains.

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.

Similarity:

Belongs to the multiplexin collagen family.

Contains 1 FZ (frizzled) domain.

Contains 1 TSP N-terminal (TSPN) domain.

SWISS:
P39060

Gene ID:
80781

Database links:

[Entrez Gene: 80781](#) Human

[Entrez Gene: 12822](#) Mouse

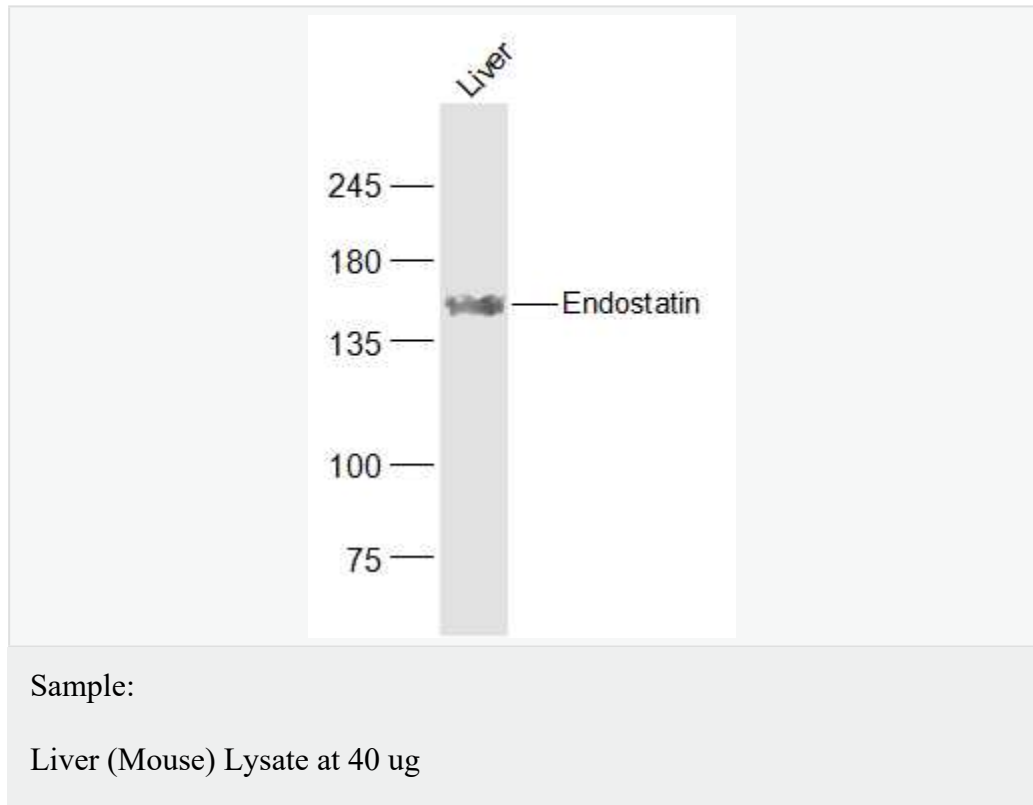
[Entrez Gene: 85251](#) Rat

[Oimim: 120328](#) Human

[SwissProt: P39060](#) Human

内皮抑素(endostatin)又称 Collagen protein18A1，是目前较理想的血管形成抑制因子,它通过抑制 Tumour 血管生成达到阻止 Tumour 生长和转移的目的。当前，血管内皮抑制素主要用于抑止 Tumour 血管的生长方面的研究。

**Product
Picture**

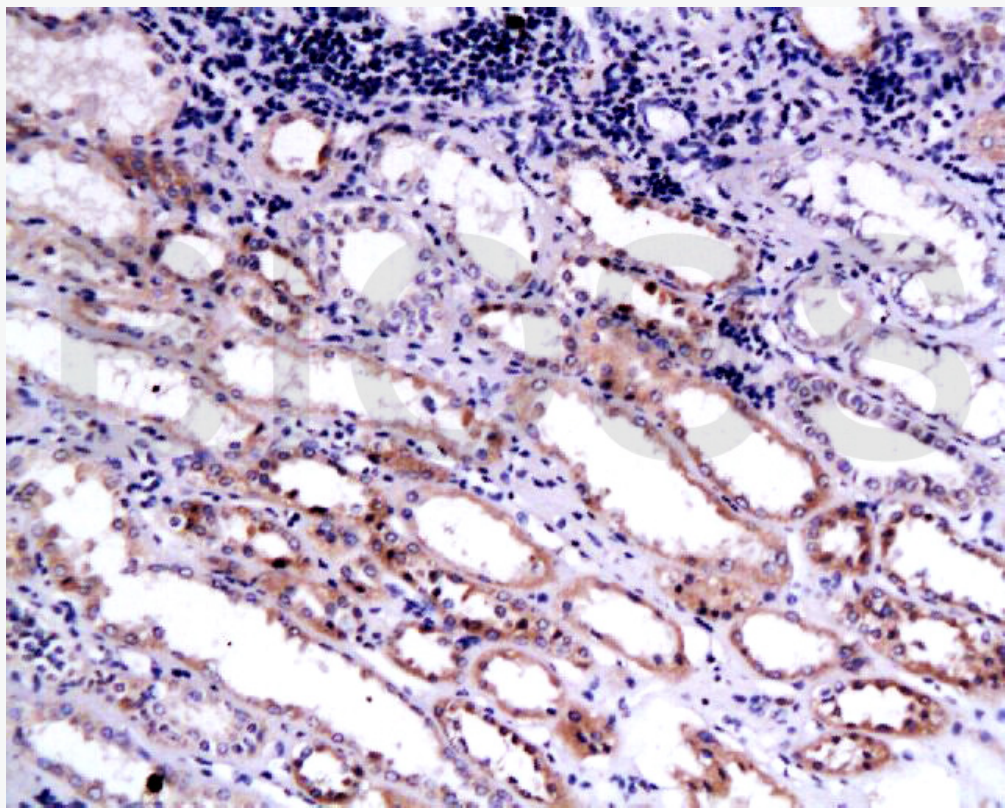


Primary: Anti-Endostatin (SL0547R) at 1/500 dilution

Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution

Predicted band size: 20/190 kD

Observed band size: 155 kD



Tissue/cell: human kidney carcinoma; 4% Paraformaldehyde-fixed and paraffin-embedded;

Antigen retrieval: citrate buffer (1M, pH 6.0), Boiling bathing for 15min;

Block endogenous peroxidase by 3% Hydrogen peroxide for 30min;

Blocking buffer (normal goat serum,C-0005) at 37°C for 20 min;



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Incubation: Anti-Endostatin Polyclonal Antibody, Unconjugated(SL0547R)

1:200, overnight at 4°C, followed by conjugation to the secondary

antibody(SP-0023) and DAB(C-0010) staining