

Endostatin Rabbit pAb

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Catalog # AP52200

Product Information

Application	WB, IHC-P, IHC-F, IF
Primary Accession	P39060
Reactivity	Human, Mouse
Predicted	Rat
Host	Rabbit
Clonality	Polyclonal
Calculated MW	178188
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human Endostatin
Epitope Specificity	1581-1680/1754
Isotype	IgG
Purity	affinity purified by Protein A
Buffer	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
SUBCELLULAR LOCATION	Secreted, extracellular space, extracellular matrix.
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.
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	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.

Additional Information

Gene ID	80781
Other Names	Collagen alpha-1(XVIII) chain, Endostatin, Non-collagenous domain 1, NC1, COL18A1 (HGNC:2195)
Dilution	WB=1:500-2000,IHC-P=1:100-500,IHC-F=1:100-500,IF=1:100-500
Storage	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody

is stable for at least two weeks at 2-4 °C.

Protein Information

Name	COL18A1 (HGNC:2195)
Function	Probably plays a major role in determining the retinal structure as well as in the closure of the neural tube.
Cellular Location	Secreted, extracellular space, extracellular matrix. Secreted, extracellular space, extracellular matrix, basement membrane {ECO:0000250 UniProtKB:P39061} [Endostatin]: Secreted. Secreted, extracellular space, extracellular matrix, basement membrane
Tissue Location	Detected in placenta (at protein level) (PubMed:32337544). Present in multiple organs with highest levels in liver, lung and kidney.

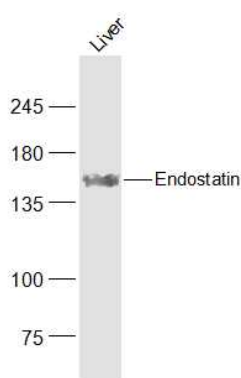
Background

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References

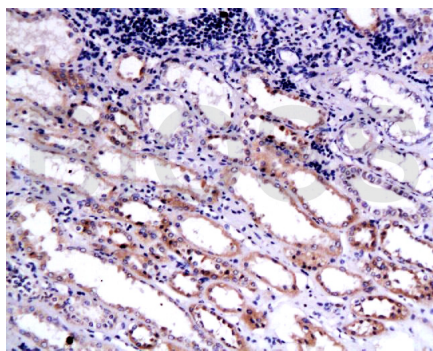
Saarela J.,et al.Matrix Biol. 16:319-328(1998).
Elamaa H.,et al.Matrix Biol. 22:427-442(2003).
Hattori M.,et al.Nature 405:311-319(2000).
Oh S.P.,et al.Genomics 19:494-499(1994).
Feng Y.,et al.Sheng Wu Gong Cheng Xue Bao 17:278-282(2001).

Images



Sample:
Liver (Mouse) Lysate at 40 ug
Primary: Anti-Endostatin (AP52200) 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 (0.01M, 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;
Incubation: Anti-Endostatin Polyclonal Antibody, Unconjugated(AP52200) 1:200, overnight at 4°C, followed



by conjugation to the secondary antibody(SP-0023) and DAB(C-0010) staining

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.