

## Anti-COL18A1 Antibody Picoband® FITC Conjugated

Catalog Number: A01302-1-FITC

### About COL18A1

Collagen alpha-1 (XVIII) chain is a protein that in humans is encoded by the COL18A1 gene. 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.

### Overview

Product Name	Anti-COL18A1 Antibody Picoband® FITC Conjugated
Reactive Species	Human
Application	Recommended applications are based on the parent unconjugated antibody (WB). Customers may select suitable applications according to their experimental needs.
Clonality	Polyclonal
Formulation	Each vial contains 50% glycerol, 0.9% NaCl, 0.2% Na <sub>2</sub> HPO <sub>4</sub> , 0.02% NaN <sub>3</sub> .
Storage Instructions	At -20°C for one year from date of receipt. Avoid repeated freezing and thawing. Protect from light.
Host	Rabbit
Uniprot ID	P39060

### Technical Details

Immunogen	E. coli-derived human COL18A1 recombinant protein (Position: H1572-K1754).
Cross Reactivity	No cross-reactivity with other proteins.
Isotype	Rabbit IgG
Form	Liquid
Concentration	0.5 mg/mL
Purification	Immunogen affinity purified.
Conjugate	FITC Excitation Wavelength: 495 nm Emission Wavelength: 525 nm

Suggested Dilutions

Optimal dilutions should be determined by end users.

## 4 Publications Citing This Product

1. PubMed ID: 10.4161/cbt.8.5.7687, Combined endostatin and TRAIL gene transfer suppresses human hepatocellular carcinoma growth and angiogenesis in nude mice
2. PubMed ID: -, Zhou J, Li Y, Shi X, Hao S, Zhang F, Guo Z, Gao Y, Guo H, Liu L. Oridonin inhibits tumor angiogenesis and induces vessel normalization in experimental colon cancer. J Cancer 2021;12(11):3257-3264. doi:10.7150/jca.55929. Available from <https://www.jcancer.org/v12p3257.htm>
3. PubMed ID: 28789460, Preliminary investigation of the role of BTB domain-containing 3 gene in the proliferation and metastasis of hepatocellular carcinoma

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