

Anti-Collagen IV COL4A1 Antibody Picoband® (monoclonal, 3G3) APC Conjugated

Catalog Number: M01411-APC

About COL4A1

COL4A1, also known as ICH or Collagen alpha-1 (IV), is a protein that in humans is encoded by the COL4A1 gene. It is mapped to 13q34. This gene encodes the major type IV alpha collagen chain of basement membranes. Like the other members of the type IV collagen gene family, this gene is organized in a head-to-head conformation with another type IV collagen gene so that each gene pair shares a common promoter. COL4A1 binds to alpha-1/beta-1 integrin and inhibits migration, proliferation, and tube formation by endothelial cells. It is also a potential therapeutic candidate for targeting tumor angiogenesis.

Overview

Product Name	Anti-Collagen IV COL4A1 Antibody Picoband® (monoclonal, 3G3) APC Conjugated
Reactive Species	Human
Application	Recommended applications are based on the parent unconjugated antibody (IF, IHC, WB). Customers may select suitable applications according to their experimental needs.
Clonality	Monoclonal 3G3
Formulation	Each vial contains 50% glycerol, 0.9% NaCl, 0.2% Na ₂ HPO ₄ , 0.02% Na ₃ N.
Storage Instructions	At -20°C for one year from date of receipt. Avoid repeated freezing and thawing. Protect from light.
Host	Mouse
Uniprot ID	P02462

Technical Details

Immunogen	E.coli-derived human Collagen IV recombinant protein (Position: G1445-T1669). Human Collagen IV shares 97% amino acid (aa) sequence identity with mouse Collagen IV.
Cross Reactivity	No cross-reactivity with other proteins.
Isotype	Mouse IgG1
Form	Liquid
Concentration	0.5 mg/mL
Purification	Immunogen affinity purified.
Conjugate	APC Excitation Wavelength: 633-647 nm Emission Wavelength: 660 nm

Suggested Dilutions

Optimal dilutions should be determined by end users.

6 Publications Citing This Product

1. PubMed ID: 15579446, Advanced Glycation End-Products Induce Connective Tissue Growth Factor-Mediated Renal Fibrosis Predominantly through Transforming Growth Factor β -Independent Pathway
2. PubMed ID: 24312656, Wen D, Huang X, Zhang M, Zhang L, Chen J, Gu Y, Hao Cm. Plos One. 2013 Dec 3;8(12):E82336. Doi: 10.1371/Journal.Pone.0082336. Ecollection 2013. Resveratrol Attenuates Diabetic Nephropathy Via Modulating Angiogenesis.
3. PubMed ID: 28656209, Hydrogen sulfide reduced renal tissue fibrosis by regulating autophagy in diabetic rats

Visit bosterbio.com/anti-collagen-iv-picoband-trade-antibody-m01411-boster.html to see all 6 publications.

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