

Anti-Collagen I/COL1A1 Antibody Picoband® Fluoro488 Conjugated

Catalog Number: PB9939-Fluoro488

About Col1a1

Collagen, type I, alpha 1, also known as COL1A1, is a human gene that encodes the major component of type I collagen, the fibrillar collagen found in most connective tissues, including cartilage. This gene is mapped to 17q21.33. And this gene encodes the [pro-alpha1 chains](#) of type I collagen whose triple helix comprises two alpha1 chains and one alpha2 chain. Type I is a fibril-forming collagen found in most connective tissues and is abundant in bone, cornea, dermis and tendon. Mutations in this gene are associated with osteogenesis imperfecta types I-IV, Ehlers-Danlos syndrome type VIIA, Ehlers-Danlos syndrome Classical type, Caffey Disease and idiopathic osteoporosis.

Overview

Product Name	Anti-Collagen I/COL1A1 Antibody Picoband® Fluoro488 Conjugated
Reactive Species	Mouse, Rat
Application	Flow Cytometry
Clonality	Polyclonal
Formulation	Each vial contains 50% glycerol, 0.9% NaCl, 0.2% Na ₂ HPO ₄ , 0.02% NaN ₃ .
Storage Instructions	At -20°C for one year from date of receipt. Avoid repeated freezing and thawing. Protect from light.
Host	Rabbit
Uniprot ID	P11087

Technical Details

Immunogen	A synthetic peptide corresponding to a sequence at the C-terminus of mouse Collagen I, different from the related human sequence by three amino acids, and identical to the related rat sequence.
Cross Reactivity	No cross-reactivity with other proteins
Isotype	Rabbit IgG
Form	Liquid
Concentration	0.5 mg/mL
Purification	Immunogen affinity purified.
Conjugate	Fluoro488 Excitation Wavelength: 488 nm Emission Wavelength: 515-545 nm
Suggested Dilutions	Flow Cytometry, Optimal dilutions should be determined by end users.

59 Publications Citing This Product

1. PubMed ID: 10.1038/s41598-020-67514-4, Investigating the antifibrotic effect of the antiparasitic drug Praziquantel in in vitro and in vivo preclinical models
2. PubMed ID: 30888602, Wei X, Bao Y, Zhan X, Zhang L, Hao G, Zhou J, Chen Q. MiR-200a ameliorates peritoneal fibrosis and functional deterioration in a rat model of peritoneal dialysis. *Int Urol Nephrol*. 2019 May; 51(5):889-896. doi:10.1007/s11255-019-02122-4. Epub 2019 Mar 19. PMID:30888602; PMCID:PMC6499761.
3. PubMed ID: 31169440, Li X, Bu X, Yan F, Wang F, Wei D, Yuan J, Zheng W, Su J, Yuan J. Deletion of discoidin domain receptor 2 attenuates renal interstitial fibrosis in a murine unilateral ureteral obstruction model. *Ren Fail*. 2019 Nov; 41(1):481-488. doi:10.1080/0886022X.2019.1621759. PMID:31169440; PMCID:PMC6567249.

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