Performance guaranteed

COL4A5 Polyclonal Antibody

Catalog Number:PA5-38878 **Product Data Sheet**

Details	
Size	100 µg
Host / Isotype	Rabbit / IgG
Class	Polyclonal
Type	Antibody
Immunogen	A synthetic peptide derived from the internal region of human Collagen IV alpha5
Form	Liquid
Concentration	1mg/ml
Purification	Antigen affinity chromatography
Storage Buffer	Dulbecco's PBS, pH 7.4, with 50% glycerol, 150mM NaCl
Contains	0.02% sodium azide
Storage Conditions	-20°C

Species Reactivity	
Tested species reactivity	Human, Mouse

Tested Applications	Dilution *
Immunofluorescence (IF)	1:100-1:500
Immunocytochemistry (ICC)	1:100-1:500
Immunohistochemistry (Paraffin) (IHC (P))	1:50-1:100

* Suggested working dilutions are given as a guide only. It is recommended that the user titrate the product for use in their own experiment using appropriate negative and positive controls.

Background/Target Information

Collagens are highly conserved and are characterized by an uninterrupted Glycine-X-Y triplet repeat. Col1, the fibrillar collagen found in most connective tissues, is the only component of the collagen found in cartilage. Mutations in this gene are associated with osteogenesis imperfecta, Ehlers-Danlos syndrome, and idiopathic osteoporosis. Col2, a fibrillar collagen found in cartilage and the vitreous humor of the eye. Mutations in this gene are associated with achondrogenesis, chondrodysplasia, early onset familial osteoarthritis, SED congenita, Langer-Saldino achondrogenesis, Kniest dysplasia. Col3 is a fibrillar collagen that is found in extensible connective tissues such as skin, lung, and the vascular system, frequently in association with type I collagen. Mutations in this gene are associated with Ehlers-Danlos syndrome type IV, aortic and arterial aneurysms. Col4 is a major consitiuent of the basement membranes along with laminins and enactins. It is composed of alpha 1 IV chain and alpha 2 IV chain in 2:1 ratio. Col4 antibodies are useful in detecting the loss of parts of basement membrane in carcinomas. Col5 is found in tissues containing Col1 and appears to regulate the assembly of heterotypic fibers composed of both Col1 and Col5. Col5 is closely related to type XI collagen; mutations in this gene are associated with Ehlers-Danlos syndrome.

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