



COL4A5 Polyclonal Antibody

Catalog Number:PA5-38878

Product Data Sheet

Details		Species Reactivity	
Size	100 µg	Tested species reactivity	Human, Mouse
Host / Isotype	Rabbit / IgG	Tested Applications	Dilution *
Class	Polyclonal	Immunofluorescence (IF)	1:100-1:500
Type	Antibody	Immunocytochemistry (ICC)	1:100-1:500
Immunogen	A synthetic peptide derived from the internal region of human Collagen IV alpha5	Immunohistochemistry (Paraffin) (IHC (P))	1:50-1:100
Form	Liquid	* 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.	
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		

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 constituent of the basement membranes along with laminins and enactsins. 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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