

Product datasheet for **AP31891PU-N**

COL1A1 (+ type III) Rabbit Polyclonal Antibody

Product data:

Product Type:	Primary Antibodies
Applications:	ELISA, IF, IHC
Recommended Dilution:	Recommended for use in Immunohistochemistry on Frozen Dog Sections and for Immunostaining of cultured Canine cells. Suitable for Dot-blotting and ELISA on native Dog Collagen type I and III. <i>Recommended Dilutions:</i> 1/20 for Immunohistochemical procedures if Peroxidase labeled secondary antibodies are applied or 1/10 if a FITC labeled secondary antibody is used.
Reactivity:	Canine
Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Immunogen:	Native Dog Collagen, mixture of type I and III: Antibodies to Dog Collagen type I and III are raised in rabbits which are numerously immunized with extensively purified native collagen type I and III extracted from dog tail tendon into dilute acidic buffer after mild pepsin digestion. Pooled antisera are passed over DEAE-cellulose to produce IgG-enriched fraction.
Specificity:	Specificity was ascertained by direct ELISA using pure Dog Collagen types I and III for coating microplate wells. No binding to canine serum proteins is revealed at similar dilutions of the antibody. Characteristic immunostaining pictures of frozen sections of dog kidney and skin are produced to certify absence of crossreactivity with basement membrane collagens (types IV and V).
Formulation:	State: Aff - Purified State: Lyophilized purified IgG fraction
Reconstitution Method:	Restore with 1 ml distilled water and add preservative if preferred
Concentration:	lot specific
Purification:	Affinity Chromatography: The affinity purified antibody is obtained by binding to immobilized native dog collagen, mixture of type I and III (the antigens used for immunization), followed by elution with acidic buffer, neutralisation, dialysis, dispensing and lyophilization.



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Conjugation: Unconjugated

Database Link: [Q9XSJ7](#)

Background: It is often extremely difficult to generate antibodies with specificities to collagens due to the uninterrupted "Glycine-X-Y" triplet repeat that is a necessary part of the triple helical structure. The development of type specific antibodies is dependent on NON-DENATURED three-dimensional epitopes - this may result in diminished reactivity of some antibodies with denatured collagen or formalin-fixed, paraffin embedded tissues. Anti-Collagen antibodies have been used for indirect trapping ELISA for quantitation of antigen in serum using a standard curve, for immunoprecipitation and for native (non-denaturing, non-dissociating) PAGE and western blotting for highly sensitive qualitative analysis.

Synonyms: COL1A1, COL1A2, Alpha-1 type I collagen, Alpha-2 type I collagen