OriGene Technologies, Inc.
9620 Medical Center Drive, Ste 200
Rockville, MD 20850, US
Phone: +1-888-267-4436
https://www.origene.com
techsupport@origene.com
EU: info-de@origene.com
CN: techsupport@origene.cn

Product datasheet for AP31893PU-N

Collagen type I (+ type III) Rabbit Polyclonal Antibody

Product data:

Product Type:	Primary Antibodies
Applications:	ELISA, IF, IHC
Recommended Dilution:	Recommended for use in **Immunohistochemistry on Frozen Porcine Sections** and for **Immunostaining** of cultured Porcine cells. *Recommended Dilutions:* 1/20 for Immunohistochemical procedures if Peroxidase labeled secondary antibodies are applied or 1/10 if a FITC labeled secondary antibody is used.
Reactivity:	Porcine
Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Immunogen:	Native Pig Collagen, mixture of type I and III: Antibodies to pig collagen type I and III are raised in rabbits which are numerously immunized with extensively purified native collagen type I and III extracted from pig skin 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 Pig Collagen types I and III for coating microplate wells. No binding to pig serum proteins is revealed at simular dilutions of the antibody. Characteristic immunostaining pictures of frozen sections of Pig kidney and skin are produced to certify absence of crossreactivity with basement membrane collagens (type 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 Pig Collagen, mixture of type I and III (the antigens used for immunization), followed by elution with acidic buffer, neutralisation, dialysis, dispensing and lyophilization.
Conjugation:	Unconjugated

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Storage: Store undiluted at 2-8°C.

Stability: Shelf life: one year from despatch.

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

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