

## Product datasheet for **AP02276PU-S**

### Col7a1 Rabbit Polyclonal Antibody

#### Product data:

Product Type:	Primary Antibodies
Applications:	ELISA, IF, IHC, WB
Recommended Dilution:	<b>ELISA:</b> 1/5,000. <b>Western blot:</b> 1/500 (Ref.1). <b>Immunofluorescence on Frozen Sections:</b> 1/100 (Ref.1)
Reactivity:	Human, Mouse
Host:	Rabbit
Clonality:	Polyclonal
Immunogen:	Recombinant Murine type VII Collagen (mixture of fragments aa 97-200, aa 479-578, aa 757-967) GST fusion protein.
Specificity:	This antibody detects Recombinant Murine type VII Collagen (aa 757-967). Cross reacts with Human type VII Collagen. Not tested for reactivity with type VII Collagen from other species.
Formulation:	PBS State: Ig Fraction State: Lyophilized purified IgG fraction from Serum
Reconstitution Method:	Restore in 10µl aqua bidest.
Purification:	Protein G Chromatography
Conjugation:	Unconjugated
Storage:	Store lyophilized at 2-8°C for 6 months or at -20°C long term. After reconstitution store the antibody undiluted at 2-8°C for one month or (in aliquots) at -20°C long term. Avoid repeated freezing and thawing.
Stability:	Shelf life: one year from despatch.
Gene Name:	collagen, type VII, alpha 1
Database Link:	<a href="#">Entrez Gene 1294 Human</a> <a href="#">Entrez Gene 12836 Mouse</a> <a href="#">Q63870</a>



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**Background:**

Type VII Collagen fibrils are composed of three identical alpha collagen chains. It's location is restricted to the basement zone beneath stratified squamous epithelia. It functions as an anchoring fibril between the external epithelia and the underlying stroma. Mutations in the collagen V11 gene are associated with all forms of dystrophic epidermolysis bullosa.

**Synonyms:**

COL7A1, Long-chain collagen, LC collagen

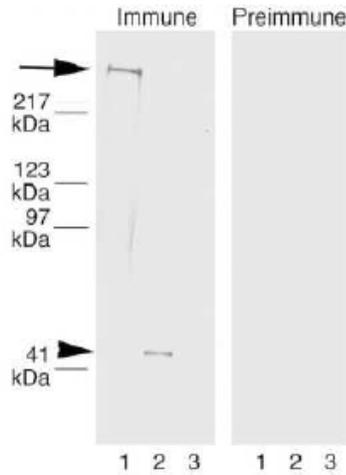
**Product images:**


Figure 1. Western Blot analysis using AP02276PU Collagen VII antibody. Extract of Murine dermis, recombinant GST-mCol7 (aa 757-967) and GST were separated by SDS-PAGE and Immunoblotted with Immune and Preimmune Serum preadsorbed against GST. IgG from Immune Serum binds cell-derived (arrow) and recombinant fragment (arrow head) of Collagen type VII. Sitaru C et al. (2005). *J. Clin. Invest.* 115 (4):870-8.

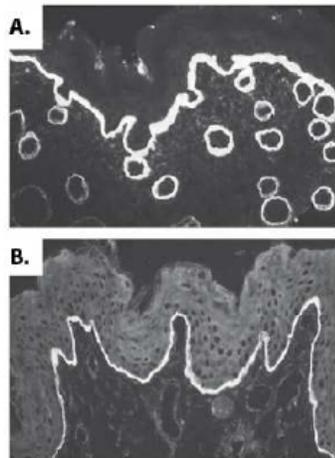


Figure 2. Immunofluorescence of Collagen VII staining in Cryosections of Murine (A) and Human Skin (B). This antibody AP02276PU stains the Dermal-Epidermal Junction (DEJ). Original magnification 250x. Sitaru C et al. (2005). *J. Clin. Invest.* 115 (4):870-8.