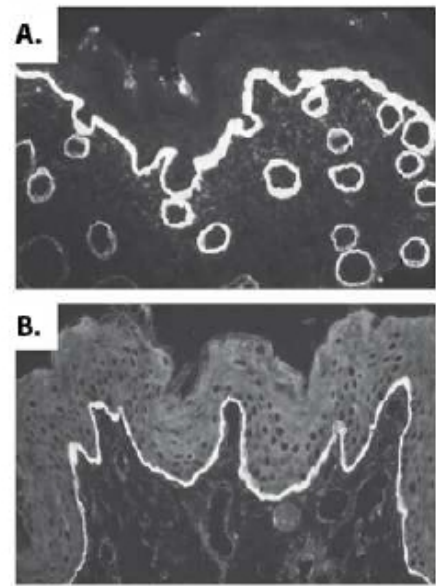


**AP02276PU-S****Polyclonal Antibody to Collagen type VII - Ig Fraction**

<b>Alternate names:</b>	COL7A1, LC collagen, Long-chain collagen
<b>Quantity:</b>	10 µg
<b>Background:</b>	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.
<b>Uniprot ID:</b>	<a href="#">Q63870</a>
<b>NCBI:</b>	<a href="#">NP_031764</a>
<b>GeneID:</b>	<a href="#">12836</a>
<b>Host:</b>	Rabbit
<b>Immunogen:</b>	Recombinant Murine type VII Collagen (mixture of fragments aa 97-200, aa 479-578, aa 757-967) GST fusion protein. <b>Genename:</b> COL7A1
<b>Format:</b>	<b>State:</b> Lyophilized purified IgG fraction from Serum <b>Purification:</b> Protein G Chromatography <b>Buffer System:</b> PBS <b>Reconstitution:</b> Restore in aqua bidest to a concentration of 1 mg/ml.
<b>Applications:</b>	<b>ELISA:</b> 1/5,000. <b>Western blot:</b> 1/500 (Ref.1). <b>Immunofluorescence on Frozen Sections:</b> 1/100 (Ref.1) Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.
<b>Specificity:</b>	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. <b>Species:</b> Human, Mouse. Other species not tested.
<b>Storage:</b>	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. Shelf life: one year from despatch.
<b>General Readings:</b>	1. Sitaru C, Mihai S, Otto C, Chiriac MT, Hausser I, Dotterweich B, et al. Induction of dermal-epidermal separation in mice by passive transfer of antibodies specific to type VII collagen. J Clin Invest. 2005 Apr;115(4):870-8. PubMed PMID: 15841176.

Pictures:

**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.*



**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.*

