

Data Sheet

MOUSE TYPE VII COLLAGEN (aa 757-967) [NC1 FN-III-LIKE DOMAINS 7 AND 8]

ANTIBODY, POLYCLONAL

Catalog no.:	AL1006.3 / AL1006.4
Immunogen	Recombinant mouse type VII collagen (aa 757-967) GST fusion protein
Synonyms:	Long-chain collagen (LC collagen)
Swiss-Prot No:	Q63870
Gene Information:	Gene name: Col7a1 GenelD: 12836
Host:	Rabbit
Matrix:	IgG, Protein A purified from serum; PBS pH 7.2, 20 mM D-(+)-trehalose dihydrate, 40 mM D-(-)-mannitol
Specificity:	Recombinant mouse type VII collagen (aa 757-967); mouse 290 kDa type VII collagen (epidermal basement membrane / anchoring fibril component) Cross-reacts with human skin.
Contents:	10 µg / 100 µg (lyophilized) Resuspend in 10 µl / 100 µl aqua bidest.
Known applications:	ELISA, immunohistochemistry (cryosections), induction of experimental EBA in mice ^{1, 2, 3, 4} This antibody has not been tested for use in all applications. This does not necessarily exclude its use in non-tested procedures. The stated dilutions are recommendations only. End users should determine optimal dilutions/concentrations in their system using appropriate negative/positive controls.
Store at:	2-8 °C (lyophilized); - 20 °C (dissolved) Repeated thawing and freezing must be avoided
References:	1. Sitaru C, Mihai S, Otto C, Chiriac MT, Hausser I, Dotterweich B, Saito H, Rose C, Ishiko A, Zillikens D (2005). Induction of dermal-epidermal separation in mice by passive transfer of antibodies specific to type VII collagen. <i>J Clin Invest</i> 115(4): 870-878. 2. Sesarman A, Sitaru AG, Olaru F, Zillikens D, Sitaru C (2008). Neonatal Fc receptor deficiency protects from tissue injury in experimental epidermolysis bullosa acquisita. <i>J Mol Med</i> 86(8): 951-959. 3. Bieber K, Witte M, Sun S, Hundt JE, Kalies K, Dräger S, Kasprick A, Twelkmeyer T, Manz RA, König P, Köhl J, Zillikens D, Ludwig RJ (2016). T cells mediate autoantibody-induced cutaneous inflammation and blistering in epidermolysis bullosa acquisita. <i>Sci Rep</i>. 6:38357.

4. Bieber K, Koga H, Nishie W (2017). In vitro and in vivo models to investigate the pathomechanisms and novel treatments for pemphigoid diseases. *Exp Dermatol.* 26(12):1163-1170.
5. Samavedam UK, Mitschker N, Kasprick A, Bieber K, Schmidt E, Laskay T, Recke A, Goletz S, Vidarsson G, Schulze FS, Armbrust M, Schulze Dieckhoff K, Pas HH, Jonkman MF, Kalies K, Zillikens D, Gupta Y, Ibrahim SM, Ludwig RJ (2018). Whole-Genome Expression Profiling in Skin Reveals SYK As a Key Regulator of Inflammation in Experimental Epidermolysis Bullosa Acquisita. *Front Immunol.* 9:249.
6. Hundt JE, Iwata H, Pieper M, Pfündl R, Bieber K, Zillikens D, König P, Ludwig RJ (2020). Visualization of autoantibodies and neutrophils in vivo identifies novel checkpoints in autoantibody-induced tissue injury. *Sci Rep.* 10(1):4509.

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