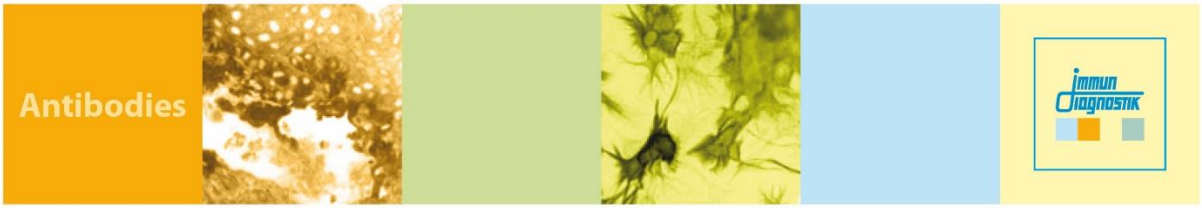

Data Sheet

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

ANTIBODY, POLYCLONAL

Catalog no.:	AL1006.5 / AL1006.6
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
	GeneID: 12836
Host:	Rabbit
Matrix:	Affinity purified by antigen from serum; PBS
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:	Immunohistochemistry (cryosections), induction of experimental EBA in mice[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. *J Clin Invest* 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. *J Mol Med* **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. Sci Rep. 6:38357.

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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. 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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