

Datasheet for ABIN7601052
anti-COL7A1 antibody (AA 2764-2944)



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Overview

Quantity:	100 µg
Target:	COL7A1
Binding Specificity:	AA 2764-2944
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This COL7A1 antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (IHC), ELISA, Flow Cytometry (FACS)

Product Details

Purpose:	Anti-Collagen VII/COL7A1 Antibody Picoband®
Immunogen:	E.coli-derived human Collagen VII/COL7A1 recombinant protein (Position: E2764-D2944).
Isotype:	IgG
Cross-Reactivity (Details):	No cross-reactivity with other proteins.
Characteristics:	Anti-Collagen VII/COL7A1 Antibody Picoband® (ABIN7601052). Tested in ELISA, Flow Cytometry, IHC, WB applications. This antibody reacts with Human. The brand Picoband indicates this is a premium antibody that guarantees superior quality, high affinity, and strong signals with minimal background in Western blot applications. Only our best-performing antibodies are designated as Picoband, ensuring unmatched performance.
Purification:	Immunogen affinity purified.

Target Details

Target:	COL7A1
Alternative Name:	COL7A1 (COL7A1 Products)
Background:	Synonyms: Placenta growth factor, PIGF, PGFL, PLGF, PGF Tissue Specificity: While the three isoforms are present in most placental tissues, PIGF-2 is specific to early (8 week) placenta and only PIGF-1 is found in the colon and mammary carcinomas. Background: Collagen alpha-1 (VII) chain is a protein that in humans is encoded by the COL7A1 gene. This gene encodes the alpha chain of type VII collagen. The type VII collagen fibril, composed of three identical alpha collagen chains, 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 this gene are associated with all forms of dystrophic epidermolysis bullosa. In the absence of mutations, however, an acquired form of this disease can result from an autoimmune response made to type VII collagen.
Molecular Weight:	300 kDa
Gene ID:	1294
UniProt:	Q02388

Application Details

Application Notes:	Western blot, 0.25-0.5 µg/mL, Human Immunohistochemistry (Paraffin-embedded Section), 2-5 µg/mL, Human Flow Cytometry (Fixed), 1-3 µg/1x10⁶ cells, Human ELISA, 0.1-0.5 µg/mL, - 1. Betts, C. M., Posteraro, P., Costa, A. M., Varotti, C., Schubert, M., Bruckner-Tuderman, L., Castiglia, D. Pretibial dystrophic epidermolysis bullosa: a recessively inherited COL7A1 splice site mutation affecting procollagen VII processing. <i>Brit. J. Derm.</i> 141: 833-839, 1999. 2. Christiano, A. M., Anhalt, G., Gibbons, S., Bauer, E. A., Uitto, J. Premature termination codons in the type VII collagen gene (COL7A1) underlie severe, mutilating recessive dystrophic epidermolysis bullosa. <i>Genomics</i> 21: 160-168, 1994. 3. Christiano, A. M., Hoffman, G. G., Chung-Honet, L. C., Lee, S., Cheng, W., Uitto, J., Greenspan, D. S. Structural organization of the human type VII collagen gene (COL7A1), composed of more exons than any previously characterized gene. <i>Genomics</i> 21: 169-179, 1994.
Restrictions:	For Research Use only

Handling

Format:	Lyophilized
Reconstitution:	Add 0.2 mL of distilled water will yield a concentration of 500 µg/mL.
Concentration:	500 µg/mL
Buffer:	Each vial contains 4 mg Trehalose, 0.9 mg NaCl and 0.2 mg Na ₂ HPO ₄ .
Storage:	4 °C, -20 °C
Storage Comment:	Store at -20°C for one year from date of receipt. After reconstitution, at 4°C for one month. It can also be aliquotted and stored frozen at -20°C for six months. Avoid repeated freeze-thaw cycles.