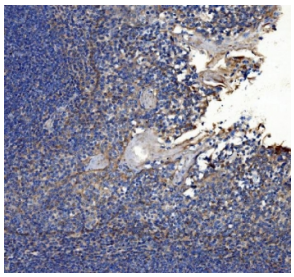
COL7A1 Antibody / Collagen VII (RQ6251)

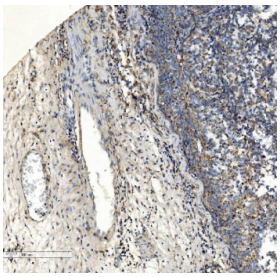
Catalog No.	Formulation	Size
RQ6251	0.5mg/ml if reconstituted with 0.2ml sterile DI water	100 ug

Bulk quote request

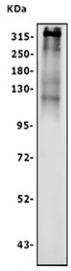
Availability	1-3 business days
Species Reactivity	Human
Format	Antigen affinity purified
Host	Rabbit
Clonality	Polyclonal (rabbit origin)
Isotype	Rabbit IgG
Purity	Affinity purified
Buffer	Lyophilized from 1X PBS with 2% Trehalose
UniProt	Q02388
Applications	Western blot: 1-2ug/ml Immunohistochemistry (FFPE): 2-5ug/ml Flow cytometry: 1-3ug/million cells Direct ELISA: 0.1-0.5ug/ml
Limitations	This COL7A1 antibody is available for research use only.



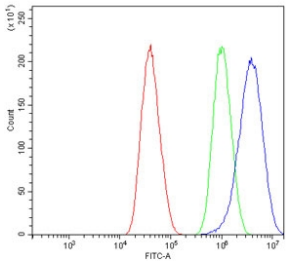
IHC staining of FFPE human tonsil tissue with COL7A1 antibody. HIER: boil tissue sections in pH8 EDTA for 20 min and allow to cool before testing.



IHC staining of FFPE human melanoma tissue with COL7A1 antibody. HIER: boil tissue sections in pH8 EDTA for 20 min and allow to cool before testing.



Western blot testing of human HeLa cell lysate with COL7A1 antibody. Expected molecular weight: 259-300 kDa.



Flow cytometry testing of human A549 cells with COL7A1 antibody at 1ug/million cells (blocked with goat sera); Red=cells alone, Green=isotype control, Blue= COL7A1 antibody.

Description

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.

Application Notes

Optimal dilution of the COL7A1 antibody should be determined by the researcher.

Immunogen

A human recombinant partial protein (amino acids E2764-D2944) was used as the immunogen for the COL7A1 antibody.

Storage

After reconstitution, the COL7A1 antibody can be stored for up to one month at 4oC. For long-term, aliquot and store at -20oC. Avoid repeated freezing and thawing.

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