

Collagen VI/COL6A1 Rabbit mAb

Catalog No.: A9738 **Recombinant** **2 Publications**

Basic Information

Observed MW

140 kDa

Calculated MW

109 kDa

Category

Primary antibody

Applications

WB, IHC-P, mIHC, ELISA

Cross-Reactivity

Human, Mouse, Rat

CloneNo number

ARC1725

Background

The collagens are a superfamily of proteins that play a role in maintaining the integrity of various tissues. Collagens are extracellular matrix proteins and have a triple-helical domain as their common structural element. Collagen VI is a major structural component of microfibrils. The basic structural unit of collagen VI is a heterotrimer of the alpha1(VI), alpha2(VI), and alpha3(VI) chains. The alpha2(VI) and alpha3(VI) chains are encoded by the COL6A2 and COL6A3 genes, respectively. The protein encoded by this gene is the alpha 1 subunit of type VI collagen (alpha1(VI) chain). Mutations in the genes that code for the collagen VI subunits result in the autosomal dominant disorder, Bethlem myopathy.

Recommended Dilutions

WB	1:500 - 1:1000
IHC-P	1:50 - 1:200
mIHC	1:50 - 1:200
ELISA	Recommended starting concentration is 1 µg/mL. Please optimize the concentration based on your specific assay requirements.

Contact

	400-999-6126
	cn.market@abclonal.com.cn
	www.abclonal.com.cn

Immunogen Information

Gene ID

1291

Swiss Prot

P12109

Immunogen

Recombinant protein (or fragment). This information is considered to be commercially sensitive.

Synonyms

OPLL; BTHLM1; UCHMD1; Collagen VI/COL6A1

Product Information

Source

Rabbit

Isotype

IgG

Purification

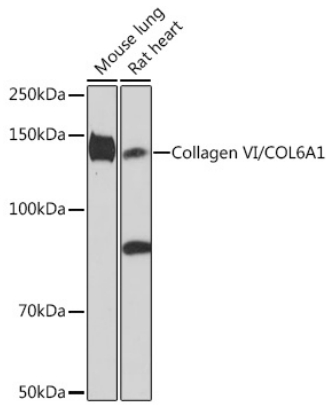
Affinity purification

Storage

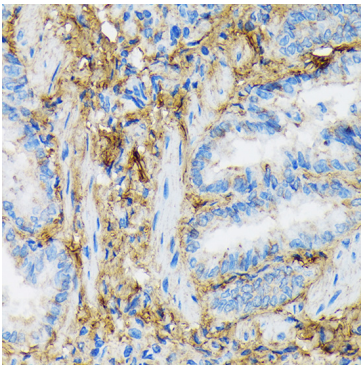
Store at -20°C. Avoid freeze / thaw cycles.

Buffer: PBS containing 50% glycerol and 0.05% BSA, preserved with proclin300 or sodium azide (as specified on the Certificate of Analysis), pH 7.3.

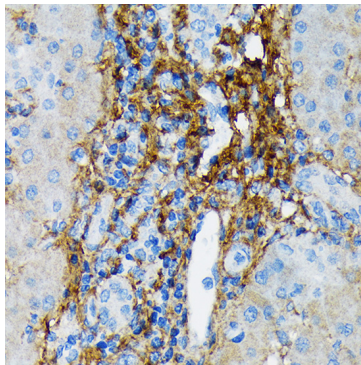
Validation Data



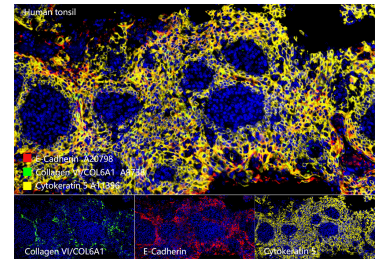
Western blot analysis of various lysates using Collagen VI/COL6A1 Rabbit mAb (A9738) at 1:1000 dilution. Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution. Lysates/proteins: 25µg per lane. Blocking buffer: 3% nonfat dry milk in TBST. Detection: ECL Enhanced Kit (RM00021). Exposure time: 3min.



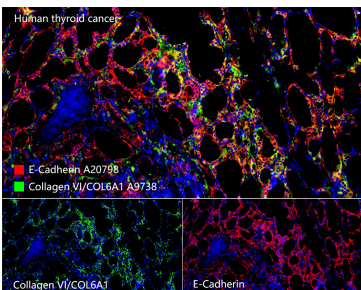
Immunohistochemistry analysis of paraffin-embedded Rat lung using Collagen VI/COL6A1 Rabbit mAb (A9738) at dilution of 1:100 (40x lens). Microwave antigen retrieval performed with 0.01M Tris/EDTA Buffer (pH 9.0) prior to IHC staining.



Immunohistochemistry analysis of paraffin-embedded Human liver using Collagen VI/COL6A1 Rabbit mAb (A9738) at dilution of 1:100 (40x lens). Microwave antigen retrieval performed with 0.01M Tris/EDTA Buffer (pH 9.0) prior to IHC staining.



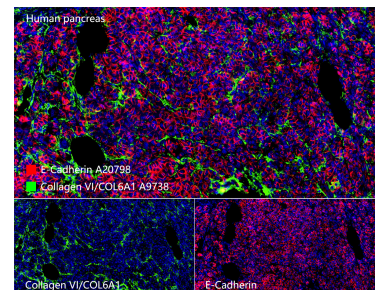
The multiplex IHC analysis on paraffin-embedded Human tonsil tissue using the following specific primary antibodies and tyramide signal amplification (TSA) reagents (RK05903) : Collagen VI/COL6A1 Rabbit mAb (A9738, 1:100) with TSA-TYR-520 (Green), and E-Cadherin Rabbit mAb (A20798, 1:500) with TSA-TYR-570 (Red), and Cytokeratin 5 Rabbit mAb (A11396, 1:2000) with TSA-TYR-690 (Yellow). DAPI (Blue) was used for nuclear staining. Prior to multiplex IHC staining, high-pressure antigen retrieval was performed using 0.01M citrate buffer at pH 6.0. The analysis was completed using a 40x objective lens.



The multiplex IHC analysis on paraffin-embedded Human thyroid cancer tissue using the following specific primary antibodies and tyramide signal amplification (TSA) reagents (RK05903) : Collagen



The multiplex IHC analysis on paraffin-embedded Human colon cancer tissue using the following specific primary antibodies and tyramide signal amplification (TSA) reagents (RK05903) : Collagen VI/COL6A1 Rabbit mAb



The multiplex IHC analysis on paraffin-embedded Human pancreas tissue using the following specific primary antibodies and tyramide signal amplification (TSA) reagents (RK05903) : Collagen VI/COL6A1 Rabbit mAb

Validation Data

VI/COL6A1 Rabbit mAb (A9738, 1:100) with TSA-TYR-520 (Green), and E-Cadherin Rabbit mAb (A20798, 1:500) with TSA-TYR-570 (Red). DAPI (Blue) was used for nuclear staining. Prior to multiplex IHC staining, high-pressure antigen retrieval was performed using 0.01M citrate buffer at pH 6.0. The analysis was completed using a 40x objective lens.

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