

A28948

Leader in Biomolecular Solutions for Life Science



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Collagen III alpha 1/COL3A1 Rabbit mAb

Catalog No.: A28948

Recombinant

Basic Information

Observed MW

Calculated MW

139 kDa

Category

Monoclonal Antibody

Applications

IHC-P,ELISA,IF-F,IF-P

Cross-Reactivity

Mouse,Rat

Background

This gene encodes the alpha-1 subunit of the fibril-forming type III collagen found in bone, cartilage, dentin, tendon, bone marrow stroma and other connective tissue. The encoded protein forms homotrimeric type III procollagen that undergoes proteolytic processing during fibril formation. A majority of mice lacking the encoded protein die within two days of birth but about 5% of the animals survive to adulthood. The surviving mice exhibit severe cortical malformation and experience significantly shorter lifespan. The mutant mouse named "tight skin 2" exhibiting systemic sclerosis phenotype was found to harbor a missense point mutation in this gene. A pseudogene of this gene has been defined on chromosome 8.

Recommended Dilutions

IF-F 1:200 - 1:800

IF-P 1:200 - 1:800

IHC-P 1:5000 - 1:20000

ELISA Recommended starting concentration is 1 µg/mL. Please optimize the concentration based on your specific assay requirements. For high-ratio antibody dilutions ($\geq 1:10000$), a sequential dilution method is strongly recommended to ensure measurement accuracy.

Immunogen Information

Gene ID

12825

Swiss Prot

P08121

Immunogen

Synthetic peptide. This information is considered to be commercially sensitive.

Synonyms

Tsk2; Tsk-2; Col3a-1

Product Information

Source

Rabbit

Isotype

IgG

Purification

Affinity purification

Storage

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

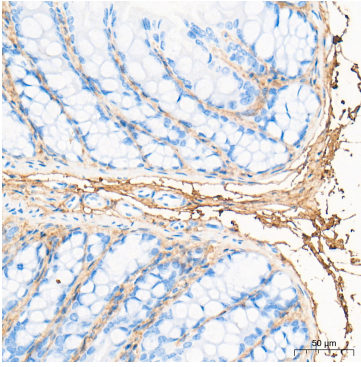
Buffer: PBS with 0.09% Sodium azide,0.05% BSA,50% glycerol,pH7.3.

Contact

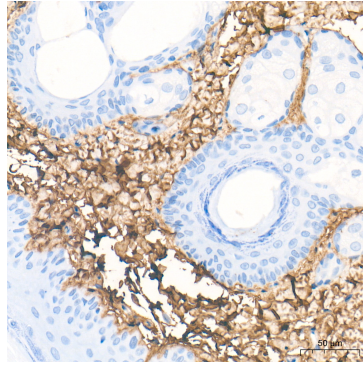


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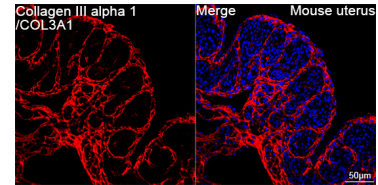
Validation Data



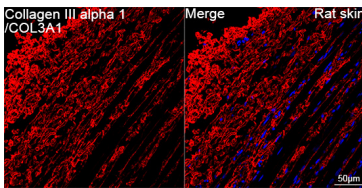
Immunohistochemistry analysis of paraffin-embedded Mouse colon tissue using Collagen III alpha 1/COL3A1 Rabbit mAb (A28948) at a dilution of 1:20000 (40x lens). High pressure antigen retrieval performed with 0.01M Tris-EDTA Buffer (pH 9.0) prior to IHC staining.



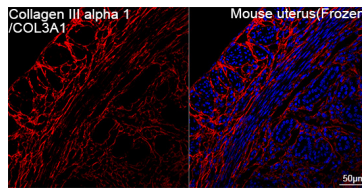
Immunohistochemistry analysis of paraffin-embedded Rat skin tissue using Collagen III alpha 1/COL3A1 Rabbit mAb (A28948) at a dilution of 1:20000 (40x lens). High pressure antigen retrieval performed with 0.01M Tris-EDTA Buffer (pH 9.0) prior to IHC staining.



Confocal imaging of paraffin-embedded Mouse uterus tissue using Collagen III alpha 1/COL3A1 Rabbit mAb (A28948, dilution 1:200) followed by a further incubation with Cy3-conjugated Goat anti-Rabbit IgG (H+L) (AS007, dilution 1:500) (Red). DAPI was used for nuclear staining (Blue). High pressure antigen retrieval performed with 0.01M Citrate Buffer (pH 6.0) prior to IF staining. Objective: 40x.



Confocal imaging of paraffin-embedded Rat skin tissue using Collagen III alpha 1/COL3A1 Rabbit mAb (A28948, dilution 1:200) followed by a further incubation with Cy3-conjugated Goat anti-Rabbit IgG (H+L) (AS007, dilution 1:500) (Red). DAPI was used for nuclear staining (Blue). High pressure antigen retrieval performed with 0.01M Citrate Buffer (pH 6.0) prior to IF staining. Objective: 40x.



Confocal imaging of frozen sections of Mouse uterus tissue using Collagen III alpha 1/COL3A1 Rabbit mAb (A28948, dilution 1:200) followed by a further incubation with Cy3-conjugated Goat anti-Rabbit IgG (H+L) (AS007, dilution 1:500) (Red). DAPI was used for nuclear staining (Blue). Microwave antigen retrieval performed with 0.01M Citrate Buffer (pH 6.0) prior to IF staining. Objective: 40x.