

Anti-Collagen, Type III Antibody (Monoclonal, FH-7A)
Catalog # ABO10422**Specification**

Anti-Collagen, Type III Antibody (Monoclonal, FH-7A) - Product Information

| | |
|-------------------|------------------------|
| Application | WB, IHC-F |
| Primary Accession | P13941 |
| Host | Mouse |
| Isotype | Mouse IgG1 |
| Reactivity | Human, Rat |
| Clonality | Monoclonal |
| Format | Lyophilized |

Description

Mouse IgG monoclonal antibody for Collagen, Type III, collagen, type III, alpha 1 (COL3A1) detection. Tested with WB, IHC-F in Human;rat. No cross reactivity with other proteins.

Reconstitution

Add 1ml of PBS buffer will yield a concentration of 100ug/ml.

Anti-Collagen, Type III Antibody (Monoclonal, FH-7A) - Additional Information

Gene ID 84032

Other Names

Collagen alpha-1(III) chain, Col3a1

Calculated MW

138936 MW KDa

Application Details

Immunohistochemistry(Frozen Section), 0.5-1 µg/ml, Human, rat, -
Western blot, 0.25-0.5 µg/ml, Human, rat

Subcellular Localization

Secreted, extracellular space, extracellular matrix .

Protein Name

Collagen alpha-1(III) chain

Contents

Mouse ascites fluid, 1.2% sodium acetate, 2mg BSA, with 0.01mg NaN3 as preservative.

Immunogen

Human collagen type III.

Purification

Ascites

Cross Reactivity

No cross reactivity with other proteins

Storage

At -20°C for one year. After reconstitution, at 4°C for one month. It can also be aliquotted and stored frozen at -20°C for a longer time. Avoid repeated freezing and thawing.

Sequence Similarities

Belongs to the fibrillar collagen family.

Anti-Collagen, Type III Antibody (Monoclonal, FH-7A) - Protein Information

Name Col3a1

Function

Collagen type III occurs in most soft connective tissues along with type I collagen. Involved in regulation of cortical development. Is the major ligand of ADGRG1 in the developing brain and binding to ADGRG1 inhibits neuronal migration and activates the RhoA pathway by coupling ADGRG1 to GNA13 and possibly GNA12 (By similarity).

Cellular Location

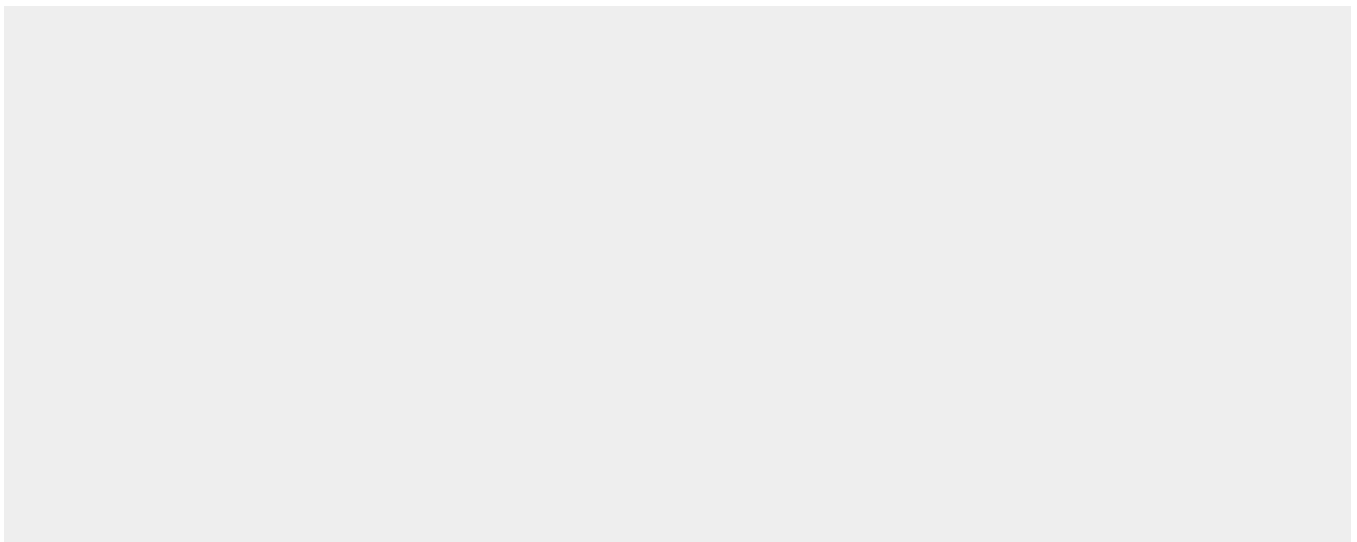
Secreted, extracellular space, extracellular matrix {ECO:0000255|PROSITE-ProRule:PRU00793}

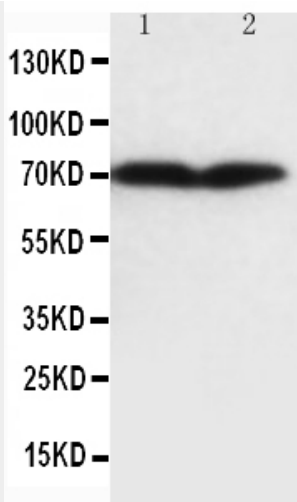
Anti-Collagen, Type III Antibody (Monoclonal, FH-7A) - Protocols

Provided below are standard protocols that you may find useful for product applications.

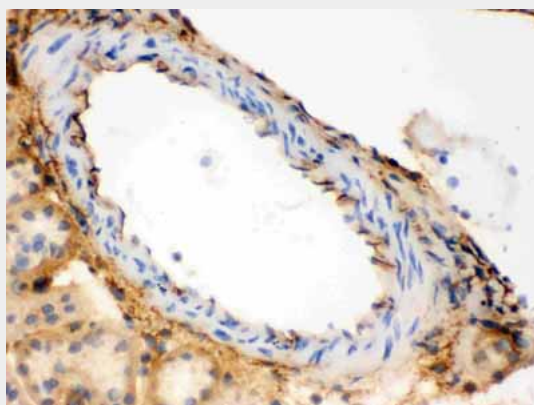
- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

Anti-Collagen, Type III Antibody (Monoclonal, FH-7A) - Images





Anti-Collagen, Type III antibody (monoclonal), ABO10422, Western blotting
Lane 1: HT1080 Cell Lysate
Lane 2: COLO320 Cell Lysate



Anti-Collagen, Type III antibody (monoclonal), ABO10422, IHC(F)
IHC(F): Mouse Kidney Tissue

Anti-Collagen, Type III Antibody (Monoclonal, FH-7A) - Background

Collagen type III, also known as COL3A1, is assigned to chromosome 2. Ultrastructural analysis of tissues from mutant mice revealed that type III collagen is essential for normal collagen I fibrillogenesis in the cardiovascular system and other organs. Type III collagen is crucial for collagen I fibrillogenesis and for normal cardiovascular development.