

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

Catalog # ABO10422

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.

Additional Information

Gene ID	84032
Other Names	Collagen alpha-1(III) chain, Col3a1
Calculated MW	138936
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 .
Source	Eukaryota
Protein Name	Collagen alpha-1(III) chain
Contents	Mouse ascites fluid, 1.2% sodium acetate, 2mg BSA, with 0.01mg NaN3 as preservative.
Clone Names	FH-7A
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.

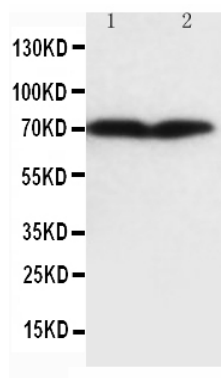
Protein Information

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}

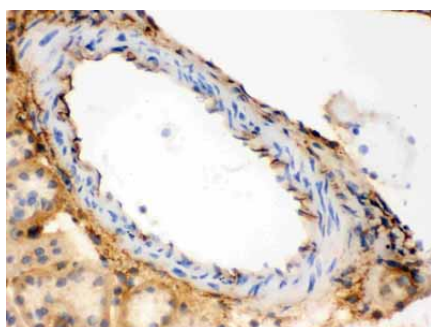
Background

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.

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

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.