# Anti-Collagen Type III/COL3A1 Antibody (Clone#9H9)

Catalog Number: M00788



**BOSTER BIOLOGICAL TECHNOLOGY** 

Special NO.1, International Enterprise Center, 2nd Guanshan Road, Wuhan, China

Web: www.boster.com.cn Phone: +86 027-67845390 Fax: +86 027-67845390 Email: boster@boster.com.cn

Basic Information		
Product Name	Anti-Collagen Type III/COL3A1 Antibody (Clone#9H9)	
Gene Name	COL3A1	
Source	Mouse	
Isotype	lgG2b	
Species Reactivity	human, mouse, rat	
Tested Application	WB, IHC	
Contents	500 ug/ml antibody with PBS , 0.02% NaN3 , 1 mg BSA and 50% glycerol.	
Immunogen	E. coli-derived human Collagen III/COL3A1 recombinant protein (Position: D1222- E1455).	
concentration	500 ug/ml	
Purification	protein G purified.	
Observed MW	150KD-200KD	
Dilution Ratios		

#### **Storage**

12 months from date of receipt, -20°C as supplied. 6 months 2 to 8°C after reconstitution. Avoid repeated freezing and thawing.

### **Background Information**

COL3A1, also called EDS4A or Collagen alpha-1(III), is a protein that in humans is encoded by the COL3A1 gene. It is mapped to 2q32.2. COL3A1 chain is a fibrillar-forming collagen comprising 3 alpha-1(III) chains and is expressed in early embryos and throughout embryogenesis. In adult, COL3A1 is a major component of the extracellular matrix in a variety of internal organs and skin. COL3A1 is also a fibrous scleroprotein in bone, cartilage, dentin, tendon, bone marrow stroma and other connective tissue. It is involved in regulation of cortical development, and it is the major ligand of GPR56 in the developing brain. COL3A1 binding to GPR56 can inhibit neuronal migration and activate the RhoA pathway by coupling GPR56 to GNA13 and possibly GNA12.

#### Reference

Anti-Collagen Type III/COL3A1 Antibody (Clone#9H9)被引用在2文献中。

#### **Selected Validation Data**

## Anti-Collagen Type III/COL3A1 Antibody (Clone#9H9)

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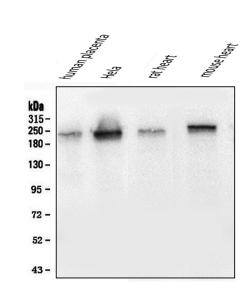


Figure 1. Western blot analysis of Anti-Collagen III/COL3A1 antibody (M00788). The sample well of each lane was loaded with 50ug of sample under reducing conditions.

Lane 1: human placenta tissue lysates,

Lane 2: Hela whole cell lysates,

Lane 3: rat heart tissue lysates,

Lane 4: mouse heart tissue lysates,Use mouse Anti-Collagen III/COL3A1 1:1000, probed with a goat anti-mouse IgG-HRP secondary antibody. The signal is developed using an Enhanced Chemiluminescent detection (ECL) kit (Catalog # EK1001). A specific band was detected for Collagen III/COL3A1 at approximately 180-190KD. The expected band size for Collagen III/COL3A1 is at 139KD.

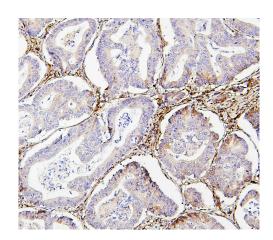


Figure 2. IHC analysis using Anti-Collagen III/COL3A1 antibody (M00788) detected in paraffin-embedded section of human intestinal cancer tissue. Biotinylated goat anti-mouse IgG was used as secondary antibody. The tissue section was developed using Strepavidin-Biotin-Complex (SABC) (Catalog # SA1021) with DAB as the chromogen.