

Datasheet for ABIN1679317  
**anti-COL3A1 antibody (AA 1217-1466)**[Go to Product page](#)

## 6 Images

## Overview

Quantity:	100 µg
Target:	COL3A1
Binding Specificity:	AA 1217-1466
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Application:	Western Blotting (WB), Immunofluorescence (IF)

## Product Details

Immunogen:	Recombinant fusion protein containing a sequence corresponding to amino acids 1217-1466 of human COL3A1 (NP_000081.1).
Sequence:	APYYGDEPMD FKINTDEIMT SLKSVNGQIE SLISPDGSRK NPARNCRDLK FCHPELKSGE YWVDPNQGCK LDAIKVFCNM ETGETCISAN PLNVPRKHHW TDSSAEKKHV WFGESMDGGF QFSYGNPELP EDVLDVQLAF LRLSSRASQ NITYHCKNSI AYMDQASGNV KKALKLMGSN EGEFKAEGNS KFTYTVLEDG CTKHTGEWSK TVFEYRTRKA VRLPIVDIAP YDIGGPDQEF GVDVGPVCFL
Isotype:	IgG
Cross-Reactivity:	Human, Mouse, Rat
Characteristics:	Polyclonal Antibodies
Purification:	Affinity purification

## Target Details

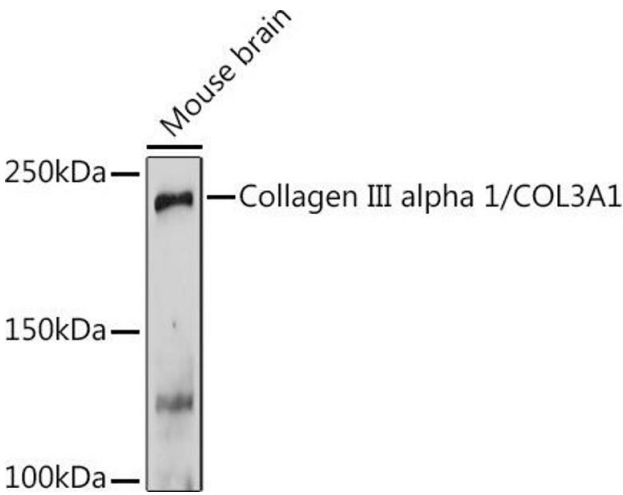
Target:	COL3A1
Alternative Name:	COL3A1 ( <a href="#">COL3A1 Products</a> )
Background:	<p>This gene encodes the pro-alpha1 chains of type III collagen, a fibrillar collagen that is found in extensible connective tissues such as skin, lung, uterus, intestine and the vascular system, frequently in association with type I collagen. Mutations in this gene are associated with Ehlers-Danlos syndrome types IV, and with aortic and arterial aneurysms. Two transcripts, resulting from the use of alternate polyadenylation signals, have been identified for this gene.,COL3A1,EDS4A,Signal Transduction,Cell Biology &amp; Developmental Biology,Cytoskeleton,Extracellular Matrix,Collagen,Stem Cells,Mesenchymal Stem Cells,COL3A1</p>
Molecular Weight:	111 kDa/138 kDa
Gene ID:	1281
UniProt:	<a href="#">P02461</a>
Pathways:	<a href="#">Autophagy</a> , <a href="#">Growth Factor Binding</a>

## Application Details

Application Notes:	WB,1:500 - 1:2000,IF,1:50 - 1:200
Restrictions:	For Research Use only

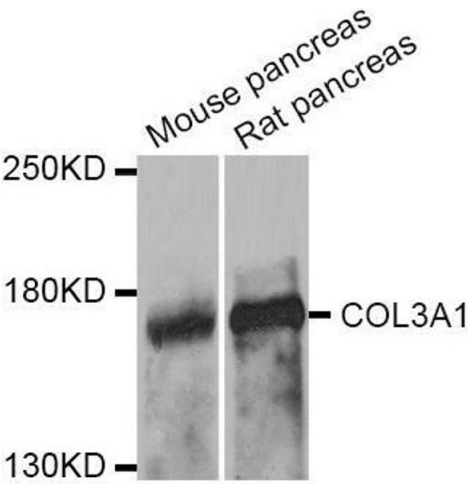
## Handling

Buffer:	PBS with 0.02 % sodium azide,50 % glycerol, pH 7.3.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	-20 °C
Storage Comment:	Store at -20°C. Avoid freeze / thaw cycles.



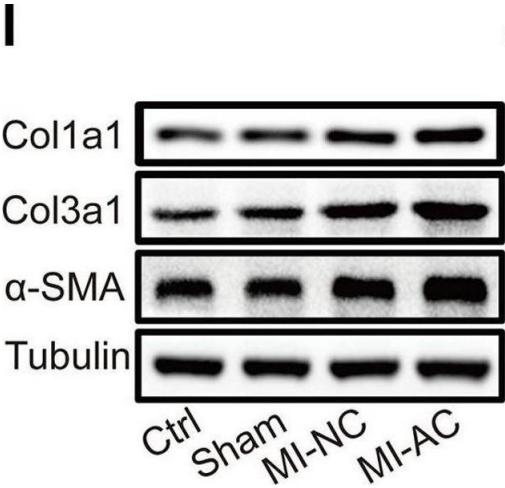
Western Blotting

**Image 1.** Western blot analysis of extracts of Mouse brain, using Collagen III alpha 1/COL3 Rabbit pAb (ABIN1679317, ABIN3018108, ABIN3018109 and ABIN6220366) at 1:1000 dilution. Secondary antibody: HRP Goat Anti-Rabbit IgG (H+L) (ABIN1684268 and ABIN3020597) at 1:10000 dilution. Lysates/proteins: 25 µg per lane. Blocking buffer: 3 % nonfat dry milk in TBST. Detection: ECL Basic Kit (RM00020). Exposure time: 180s.



Western Blotting

**Image 2.** Western blot analysis of extracts of various cell lines, using COL3A1 antibody.



Western Blotting

**Image 3.** Activated CD4+ T cells-derived exosomes deteriorate cardiac function post-MI in mouse. (A) Ex vivo fluorescence imaging of major organs from mice. MI-NC: mice underwent myocardial infarction and injected with DiO-labeled naive CD4+ exosomes by tail vein. MI-AC: mice underwent myocardial infarction and injected with DiO-labeled activated CD4+ exosomes by tail vein. (B) Representative echocardiography at the fourth week post-MI. n = 5 per group. (C-F) Statistic summary from (B). EF: ejection fraction, FS: fractional shortening, LVESD: left ventricular end-systolic dimension, LVEDD: left ventricular end-diastolic dimension (n = 5). #P < .001 vs Sham. \*P < .05 vs MI-NC. (G, H) Masson's trichrome staining of the cross section of the heart and quantification of the total fibrotic

area using Image J software. The images shown are representative of three independent experiments. n = 5 per group. Scale bar = 1mm. #P < .001 vs Sham, \*P < .05 vs MI-NC. (I) Expression levels of  $\alpha$ -SMA, Col1a1 and Col3a1 were detected by western blot analysis. The blots shown are representative of three independent experiments. (J) Quantitative analysis of proteins expression of -SMA, Col1a1 and Col3a1 using Image J software. #P < .001 vs Sham, \*P < .05 vs MI-NC. (K) qPCR analysis of  $\alpha$ -SMA, Col1a1 and Col3a1 levels in the myocardium. n=3 per group. #P < .001 vs. Sham, \*P < .05 vs. MI-NC. (L) Western blotting examination of APC and  $\beta$ -catenin protein expression. The blots shown are representative of three independent experiments. (M) Quantitative analysis of proteins expression of APC and  $\beta$ -catenin using Image J software. #P < .001 vs Sham, \*P < .05 vs MI-NC. (N) qPCR analysis of APC and  $\beta$ -catenin levels in the myocardium. n=3 per group. #P < .001 vs. Sham, \*P < .05 vs. MI-NC. - figure provided by CiteAb. Source: PMID32327611

Please check the [product details page](#) for more images. Overall 6 images are available for ABIN1679317.