

For Research Use Only

# Collagen Type I Monoclonal antibody

Catalog Number: 66761-1-Ig **96 Publications**



## Basic Information

<b>Catalog Number:</b> 66761-1-Ig	<b>GenBank Accession Number:</b> BC054498	<b>Purification Method:</b> Protein A purification
<b>Size:</b> 150ul , Concentration: 2000 µg/ml by Nanodrop;	<b>GeneID (NCBI):</b> 1278	<b>CloneNo.:</b> 3D5E8
<b>Source:</b> Mouse	<b>UNIPROT ID:</b> P08123	<b>Recommended Dilutions:</b> WB 1:2000-1:10000
<b>Isotype:</b> IgG1	<b>Full Name:</b> collagen, type I, alpha 2	
<b>Immunogen Catalog Number:</b> AG6281	<b>Calculated MW:</b> 1366 aa, 130 kDa	
	<b>Observed MW:</b> 140 kDa, 70-80 kDa	

## Applications

<b>Tested Applications:</b> WB, ELISA	<b>Positive Controls:</b> WB : rat skin tissue, pig skin tissue, mouse tail tissue
<b>Cited Applications:</b> WB, IHC, IF	
<b>Species Specificity:</b> Human, pig, mouse, rat	
<b>Cited Species:</b> human, mouse, rat, rabbit, bovine	

## Background Information

Type I collagen, the major structural component of connective tissues such as skin, tendon and bone, is the most abundant and widely expressed collagen in humans (PMID: 7620364; 8645190; 9016532). Type I collagen is a heterotrimer comprising one alpha 2(I) and two alpha 1(I) chains which are encoded by the unlinked loci COL1A2 and COL1A1 respectively. Type I collagen has a molecular mass of about 250-300 kDa, while the alpha 2(I) chain has a molecular weight of about 100-140 kDa. Mutations in COL1A2 gene are associated with osteogenesis imperfecta, Ehlers-Danlos syndrome, idiopathic osteoporosis, and atypical Marfan syndrome.

## Notable Publications

Author	Pubmed ID	Journal	Application
Silvia Specia	34529707	PLoS One	WB
Huangrong Zhu	36120586	Front Cell Dev Biol	WB
Zengqiang Miao	31734109	J Microbiol Immunol Infect	WB

## Storage

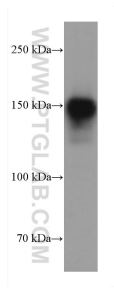
**Storage:**  
Store at -20°C. Stable for one year after shipment.  
**Storage Buffer:**  
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.  
Aliquoting is unnecessary for -20°C storage

\*\*\* 20ul sizes contain 0.1% BSA

For technical support and original validation data for this product please contact:  
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)  
E: proteintech@ptglab.com  
W: ptglab.com

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## Selected Validation Data



rat skin tissue were subjected to SDS PAGE followed by western blot with 66761-1-Ig (Collagen Type I antibody) at dilution of 1:5000 incubated at room temperature for 1.5 hours.