For Research Use Only

Collagen Type I Monoclonal antibody

Catalog Number:66761-1-Ig 71 Publications

proteintech®
Antibodies | ELISA kits | Proteins
www.ptglab.com

Basic Information

Catalog Number:
66761-1-Ig

Size:
150ul , Concentration: 2000 μg/ml by Nanodrop;

Source:
Mouse

Isotype:
IgG1

Immunogen Catalog Number:
AG6281

GenBank Accession Number:
BC054498

GeneID (NCBI):
1278

UNIPROT ID:
P08123

Full Name:
collagen, type I, alpha 2

Calculated MW:
1366 aa, 130 kDa

Observed MW:
140 kDa, 70-80 kDa

Purification Method:
Protein A purification

CloneNo.:
3D5E8

Recommended Dilutions:
WB 1:2000-1:10000

Applications

Tested Applications:
WB, ELISA

Cited Applications:
WB,IHC,IF

Species Specificity:
Human, pig, mouse, rat

Cited Species:
human, rat, mouse, rabbit, bovine

Positive Controls:

WB : rat skin tissue, pig skin tissue, mouse tail tissue

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 Speca	34529707	PLoS One	WB
Huangrong Zhu	36120586	Front Cell Dev Biol	WB
Zengqiang Miao	31734109	J Microbiol Immunol Infect	WB

Storage

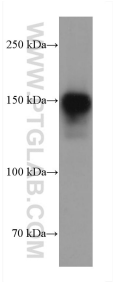
Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.
Aliquoting is unnecessary for -20°C storage

*** 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

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

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.