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# Collagen Type I Recombinant antibody, PBS Only

Antibodies | ELISA kits | Proteins Uni-rAb www.ptglab.com

Catalog Number:86093-1-PBS

### Basic Information

Catalog Number: 86093-1-PBS Size: 100ug , Concentration: 1 mg/ml by Nanodrop; Source: Rabbit Isotype: IgG Immunogen Catalog Number: AG27389

GenBank Accession Number: BC036531 GeneID (NCBI): 1277 UNIPROT ID: P02452 Full Name: collagen, type I, alpha 1 Calculated MW: 1464 aa, 139 kDa Observed MW: 140 kDa, 200 kDa

#### Purification Method: Protein A purification CloneNo.: 250534B1

# Applications

Tested Applications: WB, IHC, Indirect ELISA Species Specificity: human

### **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. Mutations in COL1A1 are associated with osteogenesis imperfect a types I-IV, Ehlers-Danlos syndrome type VIIA, Ehlers-Danlos syndrome Classical type, Caffey Disease and idiopathic osteoporosis. This antibody raised against a synthesized peptide corresponding to 1206-1218 aa of human pro-alpha 1 chain of type I collagen was clearly detected only in static constructs. Indeed, in sponges cultured under perfusion the presence of type I collagen was mainly restricted to mature chains, suggesting that HACs were no longer actively producing type I collagen (PMID: 27584727). It is reported that the molecular weight is 200kDa(PMID: 28526934).

## Storage

Storage: Store at -80°C. Storage Buffer: PBS only, pH7.3

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

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# Selected Validation Data





Immunohistochemical analysis of paraffinembedded human colon tissue slide using 86093-1-RR (COL1A1 antibody) at dilution of 1:800 (under 20x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (PH 9.0). This data was developed using the same antibody clone with 86093-1-PBS in a different storage buffer formulation.



Immunohistochemical analysis of paraffinembedded human colon cancer tissue slide using 86093-1-RR (COL1A1 antibody) at dilution of 1:800 (under 20x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0). This data was developed using the same antibody clone with 86093-1-PBS in a different storage buffer formulation.

SK-N-SH cells were subjected to SDS PAGE followed by western blot with 86093-1-RR (COL1A1 antibody) at dilution of 1:2000 incubated at room temperature for 1.5 hours. This data was developed using the same antibody clone with 86093-1-PBS in a different storage buffer formulation.