

## Anti-Collagen I Antibody (9B199)

### Product Details

Ig Type:	IgG
Reactivity:	Human
Molecular Weight:	Theoretical: 139 kDa.
Clone:	9B199
Purification:	Protein G purified

### Applications

Verified Activity:	<ol style="list-style-type: none"><li>1. Paraformaldehyde-fixed, paraffin embedded Human Colon Cancer; Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; Antibody incubation with Collagen I Monoclonal Antibody, Unconjugated (TMAB-04519) at 1: 200 overnight at 4°C, followed by conjugation to the SP Kit (Mouse) and DAB staining.</li><li>2. Paraformaldehyde-fixed, paraffin embedded Human Prostate; Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; Antibody incubation with Collagen I Monoclonal Antibody, Unconjugated (TMAB-04519) at 1: 200 overnight at 4°C, followed by conjugation to the SP Kit (Mouse) and DAB staining.</li><li>3. Paraformaldehyde-fixed, paraffin embedded Human Placenta; Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; Antibody incubation with Collagen I Monoclonal Antibody, Unconjugated (TMAB-04519) at 1: 200 overnight at 4°C, followed by conjugation to the SP Kit (Mouse) and DAB staining.</li><li>4. Paraformaldehyde-fixed, paraffin embedded Human Uterus; Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; Antibody incubation with Collagen I Monoclonal Antibody, Unconjugated (TMAB-04519) at 1: 200 overnight at 4°C, followed by conjugation to the SP Kit (Mouse) and DAB staining.</li><li>5. Paraformaldehyde-fixed, paraffin embedded Human Esophageal Cancer; Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; Antibody incubation with Collagen I Monoclonal Antibody, Unconjugated (TMAB-04519) at 1: 200 overnight at 4°C, followed by conjugation to the SP Kit (Mouse) and DAB staining.</li></ol>
Application:	IHC-P,IHC-Fr,IF
Recommended	IHC-P: 1:100-500; IHC-Fr: 1:100-500; IF: 1:100-500

### Properties

Stability & Storage:	Store at 2°C-8°C for 1 month. Store at -20°C or -80°C for 12 months. Avoid repeated freeze-thaw cycles.
Shipping:	Shipping with blue ice.

### Antigen Details

Immunogen: KLH conjugated synthetic peptide: human Collagen I  
Antigen Species: Human  
Gene ID: 1277  
Uniprot ID: P02452

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### Research Background

Collagens are highly conserved throughout evolution and are characterised by an uninterrupted "Glycine X Y" triplet repeat that is a necessary part of the triple helical structure. Type I collagen (95 kDa) is found in bone, cornea, skin and tendon. Mutations in the encoding gene are associated with osteogenesis imperfecta, Ehlers Danlos syndrome, and idiopathic osteoporosis. Reciprocal translocations between chromosomes 17 and 22, where this gene and the gene for Platelet-derived growth factor beta are located, are associated with a particular type of skin tumor called dermatofibrosarcoma protuberans, resulting from unregulated expression of the growth factor.

**Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins**

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