

## Anti-COL9A1 Antibody (Center)

Catalog Number: A04554-2

### About COL9A1

COL9A1 is one of the three alpha chains of type IX collagen, which is a minor (5-20%) collagen component of hyaline cartilage. Type IX collagen is usually found in tissues containing type II collagen, a fibrillar collagen. Studies in knockout mice have shown that synthesis of the alpha 1 chain is essential for assembly of type IX collagen molecules, a heterotrimeric molecule, and that lack of type IX collagen is associated with early onset osteoarthritis. Mutations in the COL9A1 gene are associated with osteoarthritis in humans, with multiple epiphyseal dysplasia, 6, a form of chondrodysplasia, and with Stickler syndrome, a disease characterized by ophthalmic, orofacial, articular, and auditory defects.

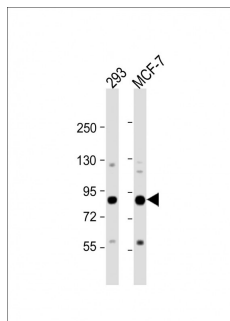
### Overview

Product Name	Anti-COL9A1 Antibody (Center)
Reactive Species	Human, Mouse, Rat
Description	Boster Bio Anti-COL9A1 Antibody (Center) (Catalog # A04554-2). Tested in IHC-P, WB application(s). This antibody reacts with Human, Mouse, Rat.
Application	IHC-P, WB
Clonality	Polyclonal
Formulation	Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide.
Storage Instructions	Maintain refrigerated at 2-8°C for up to 2 weeks. For long-term storage, store at -20°C in small aliquots to prevent freeze-thaw cycles.
Host	Rabbit
Uniprot ID	P20849

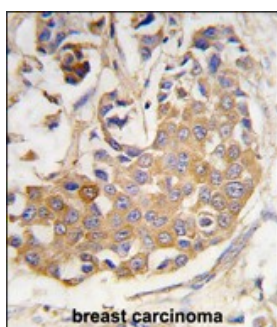
### Technical Details

Immunogen	This COL9A1 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 428-456 amino acids from the Central region of human COL9A1.
Predicted Reactive Species	Mouse
Isotype	Rabbit IgG
Purification	This antibody is purified through a protein A column, followed by peptide affinity purification.
Suggested Dilutions	WB: 1:1000 IHC-P: 1:10-1:50

## Anti-COL9A1 Antibody (Center) (A04554-2) Images



All lanes : Anti-COL9A1 Antibody (Center) at 1:1000 dilution  
Lane 1: 293 whole cell lysate  
Lane 2: MCF-7 whole cell lysate  
Lysates/proteins at 20 µg per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution. Predicted band size : 92 kDa  
Blocking/Dilution buffer: 5% NFDM/TBST.



Formalin-fixed and paraffin-embedded human breast carcinoma tissue reacted with COL9A1 antibody (Center) , which was peroxidase-conjugated to the secondary antibody, followed by DAB staining. This data demonstrates the use of this antibody for immunohistochemistry; clinical relevance has not been evaluated.

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