

**COL9A1 Antibody (Center)**  
**Affinity Purified Rabbit Polyclonal Antibody (Pab)**  
**Catalog # AW5258**

**Specification**

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**COL9A1 Antibody (Center) - Product Information**

Application	WB,E
Primary Accession	<a href="#">P20849</a>
Other Accession	<a href="#">Q05722</a>
Reactivity	Human, Mouse
Host	Rabbit
Clonality	Polyclonal
Calculated MW	H=92,64;M=92,65 KDa
Isotype	Rabbit IgG
Antigen Source	HUMAN

**COL9A1 Antibody (Center) - Additional Information**

**Gene ID** 1297

**Antigen Region**  
428-456

**Other Names**  
COL9A1; Collagen alpha-1(IX) chain

**Dilution**  
WB~~ 1:1000

**Target/Specificity**  
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.

**Format**  
Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.

**Storage**  
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.

**Precautions**  
COL9A1 Antibody (Center) is for research use only and not for use in diagnostic or therapeutic procedures.

**COL9A1 Antibody (Center) - Protein Information**

**Name** COL9A1

### Function

Structural component of hyaline cartilage and vitreous of the eye.

### Cellular Location

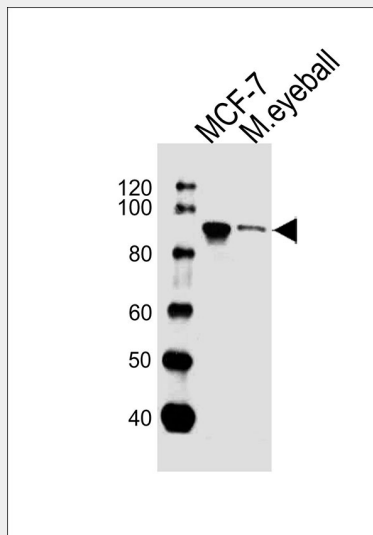
Secreted, extracellular space, extracellular matrix

## COL9A1 Antibody (Center) - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

## COL9A1 Antibody (Center) - Images



Western blot analysis of lysates from MCF-7 cell line and mouse eyeball tissue (from left to right), using COL9A1 Antibody (Center)(Cat. #AW5258). AW5258 was diluted at 1:1000 at each lane. A goat anti-rabbit IgG H&L(HRP) at 1:10000 dilution was used as the secondary antibody.

## COL9A1 Antibody (Center) - Background

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.

## COL9A1 Antibody (Center) - References

Fresquet, M., J. Biol. Chem. 282 (48), 34634-34643 (2007)  
Liu, L.Y., Yi Chuan 29 (4), 427-432 (2007)  
Van Camp, G., Am. J. Hum. Genet. 79 (3), 449-457 (2006)  
Sivakumaran, T.A., J. Assoc. Res. Otolaryngol. 7 (2), 160-172 (2006)