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COL9A1 Antibody (Center)

Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AW5258

Specification

COL9A1 Antibody (Center) - Product Information

Application	**WB,E**
Primary Accession	P20849
Other Accession	Q05722
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.

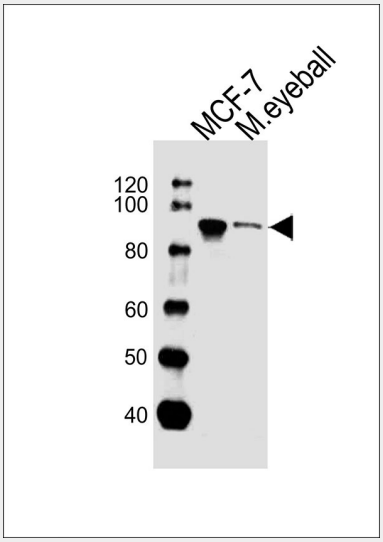
Cellular Location
Secreted, extracellular space, extracellular matrix

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 Cytomety
- 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

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Van Camp,G., Am. J. Hum. Genet. 79 (3), 449-457 (2006)
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