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COL9A1 Antibody (Center)

Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AW5258

Product Information

Application	WB
Primary Accession	P20849
Other Accession	Q05722
Reactivity	Mouse, Rat, Human
Host	Rabbit
Clonality	Polyclonal
Calculated MW	91869
Isotype	Rabbit IgG
Antigen Source	HUMAN

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.

Protein Information

Name	COL9A1
Function	Structural component of hyaline cartilage and vitreous of the eye.
Cellular Location	Secreted, extracellular space, extracellular matrix

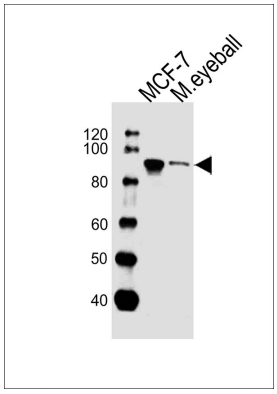
Background

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.

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)

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.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.