Rabbit COL9A1 Polyclonal Antibody | anti-COL9A1 antibody

COL9A1 Antibody (Center)

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA287577	**Rabbit**	**Human (Predicted Reactivity: Mouse)**	**Immunohistochemistry, ELISA, Western Blot**

PRODUCT SYNONYMS

COL9A1; Polyclonal Antibody; COL9A1 Antibody (Center); Collagen alpha-1(IX) chain; anti-COL9A1 antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human (Predicted Reactivity: Mouse)
Clonality	Polyclonal
Isotype	Rabbit Ig
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.
Purity/Purification	Peptide Affinity Purified Rabbit Polyclonal Antibody (Pab)
Form/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.
Concentration	Vial Concentration: 0.5 (varies by lot)
Sequence Positions	428-456
Sequence Length	328
Applicable Applications for anti-COL9A1 antibody	IHC (Immunohistochemistry), ELISA, WB (Western Blot)
Antigen Type	Synthetic Peptide
Crown Antibody	Yes
Antigen Source	HUMAN
Preparation and Storage	Maintain refrigerated at 2-8 degree C for up to 6 months. For long term storage store at -20 degree C in small aliquots to prevent freeze-thaw cycles.

IMAGES

IHC (Immunohistochemistry)
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.

WB (Western Blot)
Western blot analysis of anti-COL9A1 Antibody (Center) in 293 cell line lysates (35ug/lane). COL9A1(arrow) was detected using the purified Pab.

WB (Western Blot)
COL9A1 Antibody (Center) western blot analysis in MCF-7 cell line lysates (35ug/lane).This demonstrates the COL9A1 antibody detected the COL9A1 protein (arrow).

WB (Western Blot)
COL9A1 Antibody (Center) western blot analysis in MCF-7 cell line and mouse eyeball,rat eyeball tissue lysates (35ug/lane).This demonstrates the COL9A1 antibody detected the COL9A1 protein (arrow).

ADDITIONAL INFORMATION

Related Product Information for anti-COL9A1 antibody	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.
Product Categories/Family for anti-COL9A1 antibody	Crown Antibodies; Signal Transduction
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)

NCBI AND UNIPROT INFORMATION

NCBI GI #	73486666
NCBI GeneID	1297
NCBI Accession #	NP_001842.3; NP_511040.2
NCBI GenBank Nucleotide #	NM_001851.4
UniProt Accession #	P20849; Q13699; Q13700; Q5TF52; Q6P467; Q96BM8; Q99225; Q9H151; Q9H152; Q9Y6P2; Q9Y6P3
Molecular Weight	91869
NCBI Official Full Name	collagen alpha-1(IX) chain isoform 1
NCBI Official Synonym Full Names	collagen, type IX, alpha 1
NCBI Official Symbol	COL9A1
NCBI Official Synonym Symbols	MED; EDM6; STL4; DJ149L1.1.2
NCBI Protein Information	collagen alpha-1(IX) chain
UniProt Protein Name	Collagen alpha-1(IX) chain
UniProt Gene Name	**COL9A1**
UniProt Entry Name	CO9A1_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

AAA Biotech | Tel: +1 (619) 604-9440 | Fax: +1 (619) 604-9441 | contact@aaabiotech.com
Online datasheet: https://stage.aaabiotech.com/polyclonal/col9a1-antibody-immunohistochemistry-western-blot-elisa/287577