

Rabbit COL9A1 Polyclonal Antibody | anti-COL9A1 antibody

COL9A1 Polyclonal Antibody

CATALOG # AAA268834	HOST Rabbit	REACTIVITY Human, Mouse, Rat	APPLICATIONS ELISA, Immunohistochemistry, Immunofluorescence, Western Blot
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PRODUCT SYNONYMS

COL9A1; Polyclonal Antibody; COL9A1 Polyclonal Antibody; DJ149L1.1.2; EDM6; MED; STL4; anti-COL9A1 antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Isotype	IgG
Specificity	COL9A1 Polyclonal Antibody detects endogenous levels of COL9A1 protein.
Purity/Purification	Affinity Purification
Form/Format	PBS with 0.02% sodium azide, 50% glycerol, pH 7.3.
Concentration	1 mg/ml (varies by lot)
Sequence Length	921
Applicable Applications for anti-COL9A1 antibody	ELISA, IHC (Immunohistochemistry), IF (Immunofluorescence), WB (Western Blot)
Immunogen	Synthesized peptide derived from COL9A1 at AA range: 390-470
Organism	Human, Mouse
Cellular Localization	Secreted, extracellular space, extracellular matrix
Tissue specificity	Brain, Mammary gland
Function	Alternative products: Additional isoforms seem to exist. Disease: Defects in COL9A1 are a cause of COL9A1-related multiple epiphyseal dysplasia (COL9A1-MED) [MIM:120210]. Disease: Defects in COL9A1 are the cause of Stickler syndrome autosomal recessive COL9A1-related (COL9A1ARSTL) [MIM:120210]. COL9A1ARSTL is an autosomal recessive form of Stickler syndrome, an inherited disorder that associates ocular signs with more or less complete forms of Pierre Robin sequence, bone disorders and sensorineural deafness. Ocular disorders may include juvenile cataract, myopia, strabismus, vitreoretinal or chorioretinal degeneration, retinal detachment, and chronic uveitis. Robin sequence includes an opening in the roof of the mouth (a cleft palate), a large tongue (macroglossia), and a small lower jaw (micrognathia). Bones are affected by slight platyspondylis and large, often defective epiphyses. Juvenile joint laxity is followed by early signs of arthrosis. The degree of hearing loss varies among affected individuals and may become more severe over time. Syndrome expressivity is variable. Domain: Each subunit is composed of three triple-helical domains interspersed with non-collagenous domains. The globular domain at the N-terminus of type IX collagen molecules represents the NC4 domain which may participate in electrostatic interactions with polyanionic glycosaminoglycans in cartilage. Function: Structural component of hyaline cartilage and vitreous of the eye. PTM: Covalently linked to the telopeptides of type II collagen by lysine-derived cross links. PTM: Prolines at the third position of the tripeptide repeating unit (G-X-Y) are hydroxylated in some or all of the chains. Similarity: Belongs to the fibril-associated collagens with interrupted helices (FACIT) family. Similarity: Contains 1 TSP N-terminal (TSPN) domain. Subunit: Heterotrimer of an alpha 1(IX), an alpha 2(IX) and an alpha 3(IX) chain.
Preparation and Storage	Store at -15 degree C to -25 degree C/1 year (Do not lower than -25 degree C)

IMAGES



IHC (Immunohistochemistry)
Immunohistochemical analysis of paraffin- embedded human tonsil. 1,Antibody was diluted at 1:200 (4 degree C overnight). 2, Tris-EDTA, pH9.0 was used for antigen retrieval. 3, Secondary antibody was diluted at 1:200(room temperature, 30min).



WB (Western Blot)
Western Blot analysis of HepG2 cells using COL9A1 Polyclonal Antibody.

NCBI AND UNIPROT INFORMATION

NCBI GI #	73486666
NCBI GeneID	1297
NCBI Accession #	NP_001842.3
NCBI GenBank Nucleotide #	NP_001842.3
UniProt Accession #	P20849
Molecular Weight	120kD (Observed)
NCBI Official Full Name	collagen alpha-1(IX) chain isoform 1
NCBI Official Synonym Full Names	collagen type IX alpha 1 chain
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.

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Online datasheet: <https://stage.aaabiotech.com/polyclonal/col9a1-antibody-immunohistochemistry-immunofluorescence-western-blot-elisa/268834>