

Rabbit anti-Human, Mouse Collagen IX alpha1 Polyclonal Antibody | anti-COL9A1 antibody

Collagen IX alpha1 Antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA327723	Rabbit	Human, Mouse	ELISA, Immunocytochemistry, Immunofluorescence, Western Blot

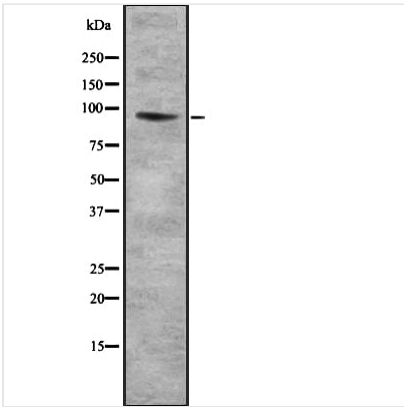
PRODUCT SYNONYMS

Collagen IX alpha1; Polyclonal Antibody; Collagen IX alpha1 Antibody; alpha 1 IX collagen chain; Alpha 1 type IX collagen; alpha-1(IX) collagen chain; Cartilage specific short collagen; Collagen alpha 1 IX chain; Collagen alpha-1(IX) chain; Collagen cartilage-specific short alpha collagen; Collagen cartilage-specific short alpha-1(IX) collagen chain; Collagen IX alpha 1 polypeptide; Collagen IX; alpha 1 polypeptide; collagen; type IX alpha; type IX; alpha 1; DJ149L1.1.2; EDM 6; EDM6; FLJ40263; MED; STL 4; STL4; anti-COL9A1 antibody

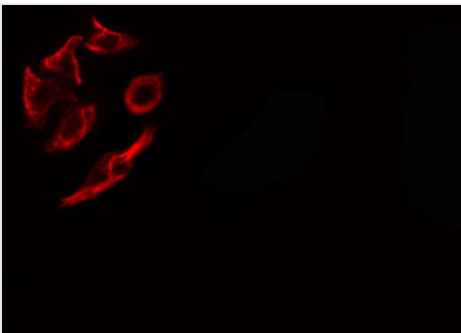
PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse
Clonality	Polyclonal
Isotype	IgG
Specificity	Collagen IX alpha1 antibody detects endogenous levels of total Collagen IX alpha1
Purity/Purification	The antiserum was purified by peptide affinity chromatography using SulfoLink Coupling Resin.
Form/Format	Liquid Phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Concentration	1mg/ml (varies by lot)
Sequence Length	921
Applicable Applications for anti-COL9A1 antibody	ELISA, ICC (Immunocytochemistry), IF (Immunofluorescence), WB (Western Blot)
Immunogen	A synthesized peptide derived from human Collagen IX alpha1
Subcellular Location	Cytoplasmic
Predicted Cross Reactivity	Bovine, Horse, Sheep, Rabbit, Dog
Similarity	Bovine (88%), Horse (100%), Sheep (100%), Rabbit (100%), Dog (100%)
Conjugation	Unconjugated
Preparation and Storage	Store at -20 degree C. Stable for 12 months from date of receipt.

IMAGES



WB (Western Blot)
Western blot analysis of Collagen IX alpha1 using LOVO whole cell lysates



IF (Immunofluorescence)
AAA327723 staining HepG2 cells by IF/ICC. The sample were fixed with PFA and permeabilized in 0.1% Triton X-100, then blocked in 10% serum for 45 minutes at 25 degree C. The primary antibody was diluted at 1/200 and incubated with the sample for 1 hour at 37 degree C. An Alexa Fluor 594 conjugated goat anti-rabbit IgG (H+L) antibody, diluted at 1/600, was used as secondary antibody.

ADDITIONAL INFORMATION

Related Product Information for anti-COL9A1 antibody	Function: Structural component of hyaline cartilage and vitreous of the eye. Subunit Structure: Heterotrimer of an alpha 1(IX), an alpha 2(IX) and an alpha 3(IX) chain. Post-translational Modifications: Covalently linked to the telopeptides of type II collagen by lysine-derived cross-links. Prolines at the third position of the tripeptide repeating unit (G-X-Y) are hydroxylated in some or all of the chains. Similarity: 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. Belongs to the fibril-associated collagens with interrupted helices (FACIT) family.
--	--

NCBI AND UNIPROT INFORMATION

NCBI GI #	73486666
NCBI GeneID	1297
NCBI Accession #	NP_001842.3
NCBI GenBank Nucleotide #	NM_001851.4
UniProt Accession #	P20849; Q13699; Q13700; Q5TF52; Q6P467; Q96BM8; Q99225; Q9H151; Q9H152; Q9Y6P2; Q9Y6P3
Molecular Weight	Observed: 92 kDa Predicted: 92 kDa
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

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.