

Rabbit anti-Human, Mouse Collagen XIIIalpha 1 Polyclonal Antibody | anti-COL13A1 antibody

Collagen XIIIalpha 1 Antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA321131	Rabbit	Human, Mouse	ELISA, Immunocytochemistry, Immunofluorescence, Western Blot

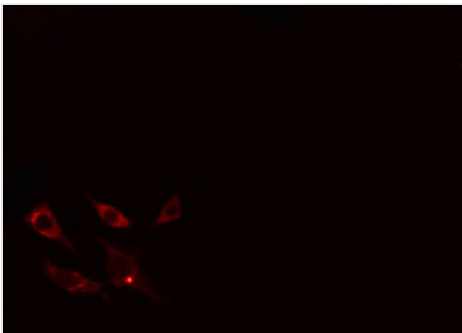
PRODUCT SYNONYMS

Collagen XIIIalpha 1; Polyclonal Antibody; Collagen XIIIalpha 1 Antibody; anti-COL13A1 antibody

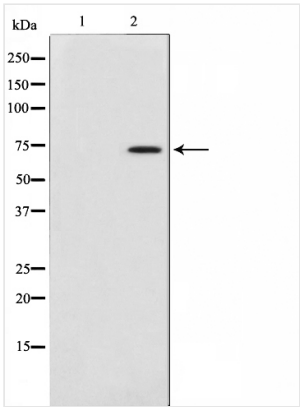
PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse
Clonality	Polyclonal
Isotype	IgG
Specificity	Collagen XIIIalpha 1 antibody detects endogenous levels of Collagen XIIIalpha 1
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	717
Applicable Applications for anti-COL13A1 antibody	ELISA, ICC (Immunocytochemistry), IF (Immunofluorescence), WB (Western Blot)
Immunogen	A synthesized peptide derived from human Collagen XIIIalpha 1
Subcellular Location	Plasma Membrane
Tissue Specificity	Widely expressed in both fetal and adult ocular tissues (at protein level). In the eye, expression is accentuated in the ciliary muscle, optic nerve and the neural retina. In early placenta, localized to fibroblastoid stromal cells of the placental villi, to endothelial cells of developing capillaries and to cells of the cytotrophoblastic columns. Also detected in large decidual cells of the decidual membrane and to stromal cells of the gestational endometrium, but not in the epithelial cells in the endometrial glands. Isoform 10: Expressed in muscle (PubMed:26626625).
Predicted Cross Reactivity	Bovine, Horse, Sheep, Rabbit, Dog
Similarity	Bovine (100%), Horse (100%), Sheep (100%), Rabbit (91%), Dog (100%)
Conjugation	Unconjugated
Preparation and Storage	Store at -20 degree C. Stable for 12 months from date of receipt.

IMAGES



IF (Immunofluorescence)
AAA321131 staining NIH-3T3 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.



WB (Western Blot)
Western blot analysis on 3T3 cell lysate using Collagen XIIIalpha 1 Antibody, The lane on the left is treated with the antigen-specific peptide.

ADDITIONAL INFORMATION

Related Product Information for anti-COL13A1 antibody	Description: This gene encodes the alpha chain of one of the nonfibrillar collagens. The function of this gene product is not known, however, it has been detected at low levels in all connective tissue-producing cells so it may serve a general function in connective tissues. Unlike most of the collagens, which are secreted into the extracellular matrix, collagen XIII contains a transmembrane domain and the protein has been localized to the plasma membrane. The transcripts for this gene undergo complex and extensive splicing involving at least eight exons. Like other collagens, collagen XIII is a trimer; it is not known whether this trimer is composed of one or more than one alpha chain isomer. A number of alternatively spliced transcript variants have been described, but the full length nature of some of them has not been determined. Function: Involved in cell-matrix and cell-cell adhesion interactions that are required for normal development. May participate in the linkage between muscle fiber and basement membrane. May play a role in endochondral ossification of bone and branching morphogenesis of lung. Binds heparin. At neuromuscular junctions, may play a role in acetylcholine receptor clustering (PubMed:26626625). Subunit Structure: Homotrimer; disulfide-linked. Nucleation of the type XIII collagen triple helix is likely to occur at the N-terminal region with triple helix formation proceeding from the N-to the C-terminus. Interacts with FN1, perlecan/HSPG2 and NID2.
--	---

NCBI AND UNIPROT INFORMATION

NCBI GI #	194294532
NCBI GeneID	1305
NCBI Accession #	NP_001123575.1
NCBI GenBank Nucleotide #	NM_001130103.1
UniProt Accession #	Q5TAT6; Q13992; Q13993; Q13994; Q13995; Q13996; Q5TAT4; Q5TAT5; Q7KZ33; A6NFR5; B9EGD2; E7EWL8
Molecular Weight	Observed: 70 kDa Predicted: 70 kDa
NCBI Official Full Name	collagen alpha-1(XIII) chain isoform 1
NCBI Official Synonym Full Names	collagen type XIII alpha 1 chain
NCBI Official Symbol	COL13A1
NCBI Official Synonym Symbols	CMS19; COLXIIIA1
NCBI Protein Information	collagen alpha-1(XIII) chain
UniProt Protein Name	Collagen alpha-1(XIII) chain

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/collagen-xiiiialpha-1-antibody-immunocytochemistry-immunofluorescence-western-blot-elisa/321131>