

Rabbit anti-Human Collagen Valpha 1 Polyclonal Antibody | anti-COL5A1 antibody

Collagen Valpha 1 Antibody

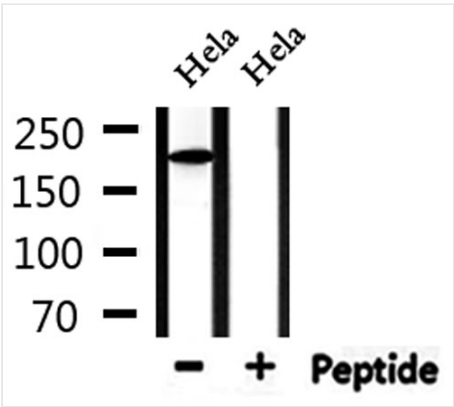
CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA321120	Rabbit	Human	ELISA, Immunocytochemistry, Immunofluorescence, Immunohistochemistry, Western Blot

PRODUCT SYNONYMS

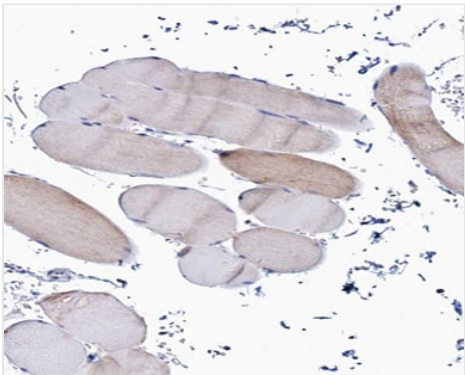
Collagen Valpha 1; Polyclonal Antibody; Collagen Valpha 1 Antibody; alpha 1 type V collagen; COL5A1; Collagen alpha-1(V) chain; Collagen V; anti-COL5A1 antibody

PRODUCT SPECIFICATIONS

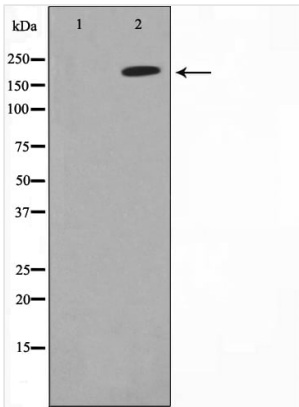
Host	Rabbit
Reactivity	Human
Clonality	Polyclonal
Isotype	IgG
Specificity	Collagen Valpha 1 antibody detects endogenous levels of Collagen Valpha 1
Purity/Purification	The antiserum was purified by peptide affinity chromatography using SulfoLink Coupling Resin.
Form/Format	Liquid Phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Concentration	1mg/ml (varies by lot)
Sequence Length	1838
Applicable Applications for anti-COL5A1 antibody	ELISA, ICC (Immunocytochemistry), IF (Immunofluorescence), IHC (Immunohistochemistry), WB (Western Blot)
Immunogen	A synthesized peptide derived from human Collagen Valpha 1
Subcellular Location	Extracellular Region or Secreted
Predicted Cross Reactivity	Pig, Horse, Sheep
Similarity	Pig (80%), Horse (80%), Sheep (82%)
Conjugation	Unconjugated
Preparation and Storage	Store at -20 degree C. Stable for 12 months from date of receipt.



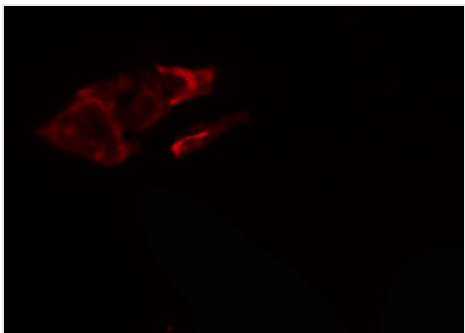
WB (Western Blot)
Western blot analysis of extracts from HeLa, using Collagen Valpha 1 Antibody.



IHC (Immunohistochemistry)
AAA321120 at 1/100 staining human Skeletal muscle tissue sections by IHC-P. The tissue was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The tissue was then blocked and incubated with the antibody for 1.5 hours at 22 degree C. An HRP conjugated goat anti-rabbit antibody was used as the secondary.



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



IF (Immunofluorescence)
AAA321120 staining HeLa 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-COL5A1 antibody	Description: This gene encodes an alpha chain for one of the low abundance fibrillar collagens. Fibrillar collagen molecules are trimers that can be composed of one or more types of alpha chains. Type V collagen is found in tissues containing type I collagen and appears to regulate the assembly of heterotypic fibers composed of both type I and type V collagen. This gene product is closely related to type XI collagen and it is possible that the collagen chains of types V and XI constitute a single collagen type with tissue-specific chain combinations. Mutations in this gene are associated with Ehlers-Danlos syndrome, types I and II. Function: Type V collagen is a member of group I collagen (fibrillar forming collagen). It is a minor connective tissue component of nearly ubiquitous distribution. Type V collagen binds to DNA, heparan sulfate, thrombospondin, heparin, and insulin. Subunit Structure: Trimers of two alpha 1(V) and one alpha 2(V) chains in most tissues and trimers of one alpha 1(V), one alpha 2(V), and one alpha 3(V) chains in placenta. Interacts with CSPG4. Post-translational Modifications: Prolines at the third position of the tripeptide repeating unit (G-X-Y) are hydroxylated in some or all of the chains. Sulfated on 40% of tyrosines. Similarity: The C-terminal propeptide, also known as COLFI domain, have crucial roles in tissue growth and repair by controlling both the intracellular assembly of procollagen molecules and the extracellular assembly of collagen fibrils. It binds a calcium ion which is essential for its function (By similarity). Belongs to the fibrillar collagen family.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	89276751
NCBI GeneID	1289

NCBI Accession #	NP_000084.3
NCBI GenBank Nucleotide #	NM_000093.4
UniProt Accession #	P20908 ; Q15094 ; Q5SUX4 ; A0A087WXW9
Molecular Weight	Observed: 200 kDa Predicted: 184 kDa
NCBI Official Full Name	collagen alpha-1(V) chain isoform 1 preproprotein
NCBI Official Synonym Full Names	collagen type V alpha 1 chain
NCBI Official Symbol	COL5A1
NCBI Official Synonym Symbols	EDSC; EDSCL1
NCBI Protein Information	collagen alpha-1(V) chain
UniProt Protein Name	Collagen alpha-1(V) chain
UniProt Gene Name	COL5A1

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/collagen-valpha-1-antibody-immunocytochemistry-immunofluorescence-immunohistochemistry-western-blot-elisa/321120>