

Rabbit anti-Human, mouse COL5A1 Polyclonal Antibody | anti-COL5A1 antibody

COL5A1 Antibody (N-term)

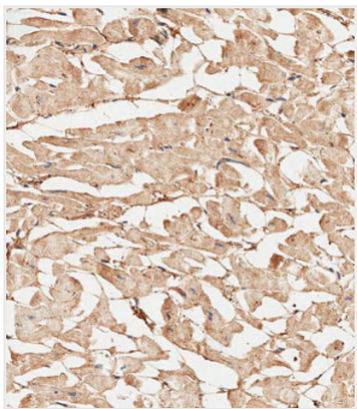
CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA28740	Rabbit	Human, mouse	ELISA, Immunohistochemistry, Western Blot

PRODUCT SYNONYMS

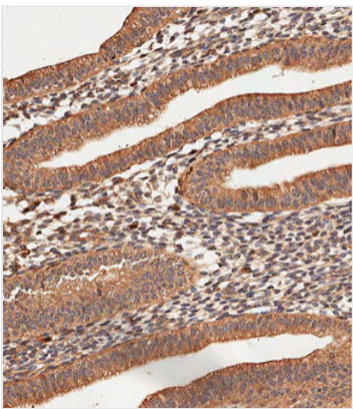
COL5A1; Polyclonal Antibody; COL5A1 Antibody (N-term); Collagen alpha-1(V) chain; anti-COL5A1 antibody

PRODUCT SPECIFICATIONS

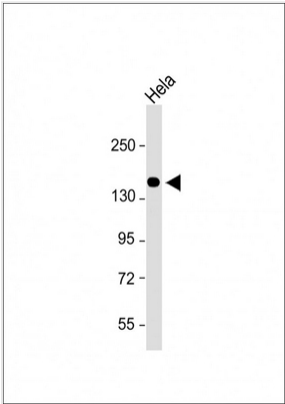
Host	Rabbit
Reactivity	Human, mouse
Clonality	Polyclonal
Isotype	Rabbit IgG
Specificity	This COL5A1 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 54-82 amino acids from the N-terminal region of human COL5A1.
Purity/Purification	This antibody is purified through a protein A column, followed by peptide affinity purification.
Form/Format	Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide.
Sequence Positions	54-82
Sequence Length	1,838
Applicable Applications for anti-COL5A1 antibody	ELISA, IHC (Immunohistochemistry), WB (Western Blot)
Application Notes	WB~~1:1000, IHC-P-Leica~~1:500
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.
Cellular Location	Secreted, extracellular space, extracellular matrix {ECO:0000255 PROSITE-ProRule:PRU00793}
Preparation and Storage	Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.



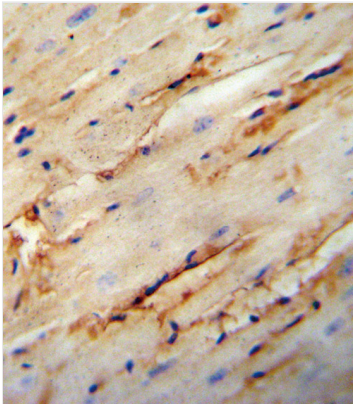
IHC (Immunohistochemistry)
Immunohistochemical analysis of paraffin-embedded Human heart tissue using (AAA28740) performed on the Leica® BOND RXm. Tissue was fixed with formaldehyde at room temperature, antigen retrieval was by heat mediation with a EDTA buffer (pH9. 0). Samples were incubated with primary antibody(1:500) for 1 hours at room temperature. A undiluted biotinylated CRF Anti-Polyvalent HRP Polymer antibody was used as the secondary antibody.



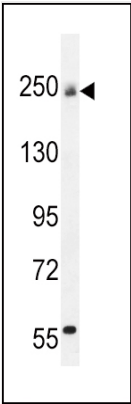
IHC (Immunohistochemistry)
Immunohistochemical analysis of paraffin-embedded Human uterus tissue using (AAA28740) performed on the Leica® BOND RXm. Tissue was fixed with formaldehyde at room temperature, antigen retrieval was by heat mediation with a EDTA buffer (pH9. 0). Samples were incubated with primary antibody(1:500) for 1 hours at room temperature. A undiluted biotinylated CRF Anti-Polyvalent HRP Polymer antibody was used as the secondary antibody.



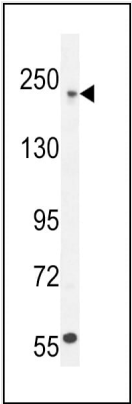
Application Data
Anti-COL5A1 Antibody (N-term) at 1:2000 dilution + HeLa whole cell lysate Lysates/proteins at 20 ug per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution. Predicted band size : 184 kDa Blocking/Dilution buffer: 5% NFDm/TBST.



IHC (Immunohistochemistry)
COL5A1 antibody (N-term) immunohistochemistry analysis in formalin fixed and paraffin embedded mouse heart tissue followed by peroxidase conjugation of the secondary antibody and DAB staining. This data demonstrates the use of the COL5A1 antibody (N-term) for immunohistochemistry. Clinical relevance has not been evaluated.



WB (Western Blot)
COL5A1 Antibody (N-term) western blot analysis in mouse bladder tissue lysates (35ug/lane).This demonstrates the COL5A1 antibody detected the COL5A1 protein (arrow).



WB (Western Blot)
COL5A1 Antibody (N-term) western blot analysis in U251 cell line lysates (35ug/lane).This demonstrates the COL5A1 antibody detected the COL5A1 protein (arrow).

ADDITIONAL INFORMATION

Related Product Information for anti-COL5A1 antibody	COL5A1 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. COL5A1 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. [providedby RefSeq].
Product Categories/Family for anti-COL5A1 antibody	Signal Transduction
References	Vitart, V., et al. Hum. Mol. Genet. 19(21):4304-4311(2010) Romero, R., et al. Am. J. Obstet. Gynecol. 203 (4), 361 (2010) : Bailey, S.D., et al. Diabetes Care 33(10):2250-2253(2010) Posthumus, M., et al. Med Sci Sports Exerc (2010) In press : Borck, G., et al. Am. J. Med. Genet. A 152A (8), 2090-2093 (2010) :

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
NCBI Official Full Name	collagen alpha-1(V) chain isoform 1 preproprotein
NCBI Official Synonym Full Names	collagen, type V, alpha 1
NCBI Official Symbol	COL5A1
NCBI Official Synonym Symbols	EDSC
NCBI Protein Information	collagen alpha-1(V) chain
UniProt Protein Name	Collagen alpha-1(V) chain
UniProt Gene Name	COL5A1
UniProt Entry Name	CO5A1_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://www.aaabiotech.com/polyclonal/col5a1-antibody-immunohistochemistry-western-blot-elisa/28740>