Rabbit Collagen VI Monoclonal Antibody | anti-COL6A1 antibody

Collagen VI

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA268403	**Rabbit**	**Human, Mouse, Rat**	**Immunohistochemistry, Immunofluorescence, Immunocytochemistry, Western Blot**

PRODUCT SYNONYMS

Collagen VI; Monoclonal Antibody; Collagen alpha-1(VI) chain; Collagen alpha-2(VI) chain; Collagen alpha-3(VI) chain; anti-COL6A1 antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Monoclonal
Isotype	IgG
Clone Number	SD83-03
Purity/Purification	Protein A affinity purified
Form/Format	Supplied in 1*TBS (pH7.4), 0.05% BSA, 40% Glycerol / Preservative: 0.05% Sodium Azide.
Sequence Length	1028
Applicable Applications for anti-COL6A1 antibody	IHC (Immunohistochemistry), IF (Immunofluorescence), ICC (Immunocytochemistry), WB (Western Blot)
Immunogen	Recombinant protein within Human Collagen VI alpha1 aa 17-255 / 1,028.
Positive Control	NIH/3T3 cell lysate, human kidney tissue lysate, rat heart tissue lysate, rat kidney tissue lysate, Hela, A549, HepG2, RH-35, human lung tissue, human liver tissue, mouse colon tissue, human colon tissue, human skin tissue.
Subcellular Location	Extracellular matrix.
Preparation and Storage	Store at +4 degree C after thawing. Aliquot store at -20 degree C or -80 degree C. Avoid repeated freeze / thaw cycles.

IMAGES

ICC (Immunocytochemistry)
ICC staining of Collagen VI in Hela cells (green). Formalin fixed cells were permeabilized with 0.1% Triton X-100 in TBS for 10 minutes at room temperature and blocked with 10% negative goat serum for 15 minutes at room temperature. Cells were probed with the primary antibody for 1 hour at room temperature, washed with PBS. Alexa Fluor®488 conjugate-Goat anti-Rabbit IgG was used as the secondary antibody at 1/1,000 dilution. The nuclear counter stain is DAPI (blue).

WB (Western Blot)
Western blot analysis of Collagen VI on diferent lysates with Rabbit anti-Collagen VI antibody at 1/2,000 dilution.Lane 1: NIH/3T3 ce l lysate (15 ug/Lane);Lane 2: Human kidney tissue lysate (20 ug/Lane);Lane 3: Rat heart tissue lysate (20 ug/Lane);Lane 4: Rat kidney tissue lysate (20 ug/Lane).Predicted band size: 109 kDa.Observed band size: 145 kDa.Exposure time: 1 minute 30 seconds; 4-20% SDS-PAGE gel.Proteins were transferred to a PVDF membrane and blocked with 5% NFDM/TBST for 1 hour at room temperature. The primary antibody at 1/2,000 dilution was used in 5% NFDM/TBST at 4 degree C overnight. Goat Anti-Rabbit IgG-HRP Secondary Antibody at 1/50,000 dilution was used for 1 hour at room temperature.

ADDITIONAL INFORMATION

Related Product Information for anti-COL6A1 antibody	Collagen VI (ColVI) is a type of collagen primarily associated with the extracellular matrix of skeletal muscle. ColVI maintains regularity in muscle function and stabilizes the cell membrane. It is synthesized by a complex, multistep pathway that leads to the formation of a unique network of linked microfilaments located in the extracellular matrix (ECM). ColVI plays a vital role in numerous cell types, including chondrocytes, neurons, myocytes,fibroblasts, and cardiomyocytes. ColVI molecules are made up of three alpha chains: ?1(VI),?2(VI), and ?3(VI). It is encoded by 6 genes: COL6A1, COL6A2, COL6A3, COL6A4,COL6A5, and COL6A6. The chain lengths of ?1(VI) and ?2(VI) are about 1,000 amino acids. The chain length of ?3(VI) is roughly a third larger than those of ?1(VI) and ?2(VI),and it consists of several spliced variants within the range of 2,500 to 3,100 amino acids.The first two alpha chains subunits of ColVI have a molecular weight of 140-150 KDa and the third polypeptide chain is larger with a molecular weight of 250-300kDa. ColVI is also found in the skin, lungs, blood vessels, cornea and intervertebral disc. It also forms part of the peripheral nerves, brain, myocardium and adipose tissue.

NCBI AND UNIPROT INFORMATION

NCBI GI #	87196339
NCBI GeneID	1291
NCBI Accession #	NP_001839.2
NCBI GenBank Nucleotide #	NM_001848.2
UniProt Accession #	P12109; O00117; O00118; Q14040; Q14041; Q16258; Q7Z645; Q9BSA8
Molecular Weight	Predicted band size: 109 kDa
NCBI Official Full Name	collagen alpha-1(VI) chain
NCBI Official Synonym Full Names	collagen type VI alpha 1 chain
NCBI Official Symbol	COL6A1
NCBI Official Synonym Symbols	OPLL; BTHLM1; UCHMD1
NCBI Protein Information	collagen alpha-1(VI) chain
UniProt Protein Name	Collagen alpha-1(VI) chain
UniProt Gene Name	**COL6A1**

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/monoclonal/collagen-vi-antibody-clone-sd83-03-immunohistochemistry-immunofluorescence-immunocytochemistry-western-blot-elisa/268403