

Rabbit anti-Human Pro-Collagen I alpha Polyclonal Antibody | anti-COL1A1 antibody

Human Pro-Collagen I alpha Rabbit pAb

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA283249	Rabbit	Human	Immunocytochemistry, Immunofluorescence, Immunohistochemistry, Western Blot

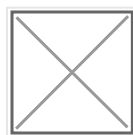
PRODUCT SYNONYMS

Pro-Collagen I alpha; Polyclonal Antibody; Human Pro-Collagen I alpha Rabbit pAb; COL1A1; EDSC; OI1; OI2; OI3; OI4; collagen alpha-1(I) chain; Human Pro-Collagen I alpha; anti-COL1A1 antibody

PRODUCT SPECIFICATIONS

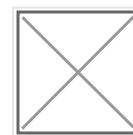
Host	Rabbit
Reactivity	Human
Clonality	Polyclonal
Isotype	IgG
Purity/Purification	Affinity purification
Form/Format	PBS with 0.05% proclin300, 50% glycerol, pH7.3.
Sequence	GQVEGQDEDI PPITCVQNGL RYHDRDVWKP EPCRICVCDN GKVLCDDVIC DETKNCPGAE VPEGECCPVC PDGSESPTDQ ETTGVEGPKG DTGPRGPRGP AGPPGRDGIP GQGPLGPPG PPGPPGPPGL GGNFAP
Applicable Applications for anti-COL1A1 antibody	ICC (Immunocytochemistry), IF (Immunofluorescence), IHC (Immunohistochemistry), WB (Western Blot)
Immunogen	Recombinant fusion protein containing a sequence corresponding to amino acids 26-161 of human Collagen I/COL1A1 (NP_000079.2).
Preparation and Storage	Store at -20 degree C. Avoid freeze/thaw cycles.

IMAGES



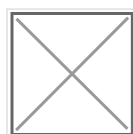
IF (Immunofluorescence)

Immunofluorescence analysis of paraffin-embedded human colon using Human Pro-Collagen I alpha Rabbit pAb (AAA283249) at dilution of 1:200 (40x lens). Secondary antibody: Cy3-conjugated Goat anti-Rabbit IgG (H+L) (AS007) at 1:500 dilution. Blue: DAPI for nuclear staining. Perform high pressure antigen retrieval with 0.01M citrate buffer (pH 6.0) prior to IF staining.



IHC (Immunohistochemistry)

Immunohistochemistry analysis of paraffin-embedded Human colon tissue using Human Pro-Collagen I alpha Rabbit pAb (AAA283249) at a dilution of 1:200 (40x lens). High pressure antigen retrieval performed with 0.01M Citrate Buffer (pH 6.0) prior to IHC staining.



WB (Western Blot)

Western blot analysis of lysates from U-138 MG cells using Human Pro-Collagen I alpha Rabbit pAb (AAA283249) at 1:2000 dilution. Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution. Lysates/proteins: 25 ug per lane. Blocking buffer: 3% nonfat dry milk in TBST. Detection: ECL Enhanced Kit (RM00021). Exposure time: 30s.

ADDITIONAL INFORMATION

Related Product Information for anti-COL1A1 antibody	This gene encodes the pro-alpha1 chains of type I collagen whose triple helix comprises two alpha1 chains and one alpha2 chain. Type I is a fibril-forming collagen found in most connective tissues and is abundant in bone, cornea, dermis and tendon. Mutations in this gene are associated with osteogenesis imperfecta types I-IV, Ehlers-Danlos syndrome type VIIA, Ehlers-Danlos syndrome Classical type, Caffey Disease and idiopathic osteoporosis. Reciprocal translocations between chromosomes 17 and 22, where this gene and the gene for platelet-derived growth factor beta are located, are associated with a particular type of skin tumor called dermatofibrosarcoma protuberans, resulting from unregulated expression of the growth factor. Two transcripts, resulting from the use of alternate polyadenylation signals, have been identified for this gene.
Product Categories/Family for anti-COL1A1 antibody	Signal Transduction; Cytoskeleton/ECM; Extracellular Matrix; ECM Proteins; Collagen; Antibodies

NCBI AND UNIPROT INFORMATION

NCBI GI #	296439504
NCBI GeneID	1277
UniProt Accession #	P02452; O76045; P78441; Q13896; Q13902; Q13903; Q14037; Q14992; Q15176; Q15201; Q16050; Q59F64
Molecular Weight	Calculated MW: 138kDa Observed MW: 220kDa
UniProt Protein Name	Collagen alpha-1(I) chain
UniProt Gene Name	COL1A1
UniProt Entry Name	CO1A1_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.

AAA Biotech | Tel: +1 (619) 604-9440 | Fax: +1 (619) 604-9441 | contact@aaabiotech.com
Online datasheet: <https://stage.aaabiotech.com/polyclonal/pro-collagen-i-alpha-antibody-immunocytochemistry-immunofluorescence-immunohistochemistry-western-blot-elisa/283249>