

anti-Human Collagen III Polyclonal Antibody | anti-COL3A1 antibody

Anti-Collagen III Antibody

CATALOG # AAA46297	REACTIVITY Human	APPLICATIONS Western Blot
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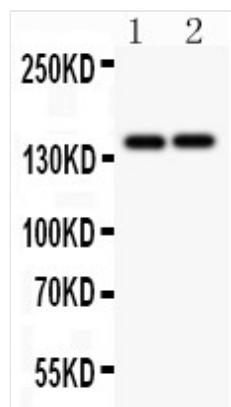
PRODUCT SYNONYMS

Collagen III; Polyclonal Antibody; Anti-Collagen III Antibody; Collagen alpha-1(III) chain; CO3A1_HUMAN; COL 3A1; COL3A1; Collagen alpha 1(III) chain; Collagen III alpha 1 chain precursor; Collagen III alpha 1 polypeptide; Collagen type III alpha 1 (Ehlers Danlos syndrome type IV autosomal dominant); Collagen type III alpha 1; Collagen type III alpha; EDS4A; Ehlers Danlos syndrome type IV; autosomal dominant; Fetal collagen; Type III collagen; collagen; type III; alpha 1; anti-COL3A1 antibody

PRODUCT SPECIFICATIONS

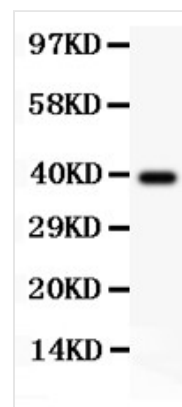
Reactivity	Human
Clonality	Polyclonal
Purity/Purification	Immunogen Affinity Purified
Form/Format	Lyophilized. Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na2HPO4, 0.05mg Thimerosal, 0.05mg NaN3.
Sequence Length	1466
Applicable Applications for anti-COL3A1 antibody	WB (Western Blot)
Immunogen	A synthetic peptide corresponding to a sequence at the C-terminus of human Collagen III(1200-1221aa VGAAAIAGIGGEKAGGFAPYYG), different from the related mouse sequence by four amino acids, and from the related rat sequence by five amino acids.
Ig Type	Rabbit IgG
Reconstitution	Add 0.2ml of distilled water will yield a concentration of 500ug/ml.
Preparation and Storage	At -20 degree C for one year. After reconstitution, at 4 degree C for one month. It can also be aliquoted and stored frozen at -20 degree C for a longer time. Avoid repeated freezing and thawing.

IMAGES



Application Data

Anti-Collagen III Picoband antibody, -2.jpgAll lanes: Anti Collagen III at 0.5ug/mlLane 1: MCF-4 Whole Cell Lysate at 40ugLane 2: COLO320 Whole Cell Lysate at 40ugPredicted bind size: 139KDObserved bind size: 139KD



WB (Western Blot)

Anti-Collagen III Picoband antibody, -1.jpgAll lanes: Anti Collagen III at 0.5ug/mlWB: Recombinant Human Collagen III Protein 0.5ngPredicted bind size: 39KDObserved bind size: 39KD

ADDITIONAL INFORMATION

Related Product Information for anti-COL3A1 antibody	Description: Rabbit IgG polyclonal antibody for Collagen alpha-1(III) chain(COL3A1) detection. Tested with WB in Human. Background: COL3A1, also called EDS4A or Collagen alpha-1(III), is a protein that in humans is encoded by the COL3A1 gene, it is mapped to 2q32.2. COL3A1 chain is a fibrillar-forming collagen comprising 3 alpha-1(III) chains and is expressed in early embryos and throughout embryogenesis. In adult, COL3A1 is a major component of the extracellular matrix in a variety of internal organs and skin. COL3A1 is also a fibrous scleroprotein in bone, cartilage, dentin, tendon, bone marrow stroma and other connective tissue. It is involved in regulation of cortical development, and it is the major ligand of GPR56 in the developing brain.COL3A1 binding to GPR56 can inhibit neuronal migration and activate the RhoA pathway by coupling GPR56 to GNA13 and possibly GNA12
References	1. Janeczko RA, Ramirez F (Oct 1989). "Nucleotide and amino acid sequences of the entire human alpha 1 (III) collagen". Nucleic Acids Res 17 (16): 6742. 2. Superti-Furga A, Gugler E, Gitzelmann R, Steinmann B (Jun 1988). "Ehlers-Danlos syndrome type IV: a multi-exon deletion in one of the two COL3A1 alleles affecting structure, stability, and processing of type III procollagen". J Biol Chem 263 (13): 6226-32.

NCBI AND UNIPROT INFORMATION

NCBI GI #	4502951
NCBI GeneID	1281
NCBI Accession #	NP_000081.1
NCBI GenBank Nucleotide #	NM_000090.3
UniProt Accession #	P02461; P78429; Q15112; Q16403; Q53S91; Q541P8; Q6LDB3; Q6LDJ2; Q6LDJ3; Q7KZ56; D2JYH5; D3DPH4
Molecular Weight	111,907 Da
NCBI Official Full Name	collagen alpha-1(III) chain preproprotein
NCBI Official Synonym Full Names	collagen type III alpha 1
NCBI Official Symbol	COL3A1
NCBI Official Synonym Symbols	EDS4A
NCBI Protein Information	collagen alpha-1(III) chain
UniProt Protein Name	Collagen alpha-1(III) chain
UniProt Gene Name	COL3A1
UniProt Entry Name	CO3A1_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.