

Rabbit anti-Human, Rat Collagen X/COL10A1 Polyclonal Antibody | anti-COL10A1 antibody

Collagen X/COL10A1 Rabbit pAb

CATALOG # AAA281976	HOST Rabbit	REACTIVITY Human, Rat	APPLICATIONS Immunohistochemistry, Western Blot
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PRODUCT SYNONYMS

Collagen X/COL10A1; Polyclonal Antibody; Collagen X/COL10A1 Rabbit pAb; COL10A1; collagen alpha-1(X) chain; anti-COL10A1 antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Rat
Clonality	Polyclonal
Isotype	IgG
Purity/Purification	Affinity purification
Form/Format	PBS with 0.02% sodium azide, 50% glycerol, pH7.3.
Applicable Applications for anti-COL10A1 antibody	IHC (Immunohistochemistry), WB (Western Blot)
Immunogen	Recombinant protein of human Collagen X/Collagen X/COL10A1.
Cellular Location	Secreted, extracellular matrix, extracellular space
Positive Samples	Rat lung, Rat ovary
Preparation and Storage	Store at -20 degree C. Avoid freeze/thaw cycles.

IMAGES



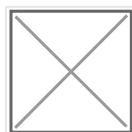
IHC (Immunohistochemistry)

Immunohistochemistry of paraffin-embedded human colon carcinoma using Collagen X/Collagen X/COL10A1 Rabbit pAb at dilution of 1:100 (40x lens).



IHC (Immunohistochemistry)

Immunohistochemistry of paraffin-embedded rat ovary using Collagen X/Collagen X/COL10A1 Rabbit pAb at dilution of 1:100 (40x lens).



WB (Western Blot)

Western blot analysis of extracts of various cell lines, using Collagen X/Collagen X/COL10A1 antibody at 1:1000 dilution. Secondary antibody: HRP Goat Anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution. Lysates/proteins: 25ug per lane. Blocking buffer: 3% nonfat dry milk in TBST. Detection: ECL Basic Kit (RM00020). Exposure time: 3min.

ADDITIONAL INFORMATION

Related Product Information for anti-COL10A1 antibody	Background: This gene encodes the alpha chain of type X collagen, a short chain collagen expressed by hypertrophic chondrocytes during endochondral ossification. Unlike type VIII collagen, the other short chain collagen, type X collagen is a homotrimer. Mutations in this gene are associated with Schmid type metaphyseal chondrodysplasia (SMCD) and Japanese type spondylometaphyseal dysplasia (SMD).
Product Categories/Family for anti-COL10A1 antibody	Cell Biology & Developmental Biology; Extracellular Matrix; Collagen

NCBI AND UNIPROT INFORMATION

NCBI GI #	119568625
NCBI GeneID	1300
UniProt Accession #	Q03692; A1L4P2
Molecular Weight	66,158 Da
NCBI Official Full Name	collagen, type X, alpha 1(Schmid metaphyseal chondrodysplasia)
NCBI Official Synonym Full Names	collagen, type X, alpha 1
NCBI Official Symbol	COL10A1
NCBI Protein Information	collagen alpha-1(X) chain; collagen alpha-1(X) chain; collagen X, alpha-1 polypeptide; Schmid metaphyseal chondrodysplasia
UniProt Protein Name	Collagen alpha-1(X) chain
UniProt Gene Name	COL10A1
UniProt Entry Name	COAA1_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.