

Collagen X Rabbit mAb

Catalog No: #49327

Package Size: #49327-1 50ul #49327-2 100ul

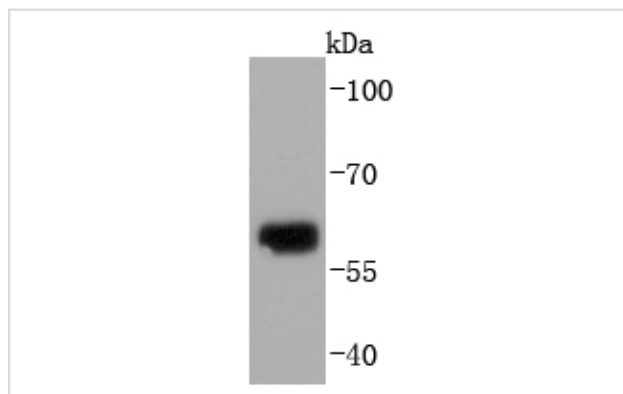
Description

Product Name	Collagen X Rabbit mAb
Host Species	Recombinant Rabbit
Clonality	Monoclonal
Clone No.	JF0961
Purification	ProA affinity purified
Applications	WB
Species Reactivity	Hu, Ms, Rt
Immunogen Description	recombinant protein
Conjugates	Unconjugated
Other Names	COAA1_HUMAN antibody Col10a 1 antibody COL10A1 antibody Collagen alpha 1(X) chain antibody Collagen alpha-1(X) chain antibody Collagen type X alpha 1 (Schmid metaphyseal chondrodysplasia) antibody Collagen type X alpha 1 antibody Collagen X alpha 1 polypeptide antibody CollagenX antibody fa66d11 antibody fb10c08 antibody OTTHUMP00000040411 antibody Procollagen type X alpha 1 antibody Schmid metaphyseal chondrodysplasia antibody wu:fa66d11 antibody wu:fb10c08 antibody
Accession No.	Swiss-Prot#:Q03692
Calculated MW	66 kDa
Formulation	1*TBS (pH7.4), 1%BSA, 40%Glycerol. Preservative: 0.05% Sodium Azide.
Storage	Store at -20°C

Application Details

WB: 1:1,000-1:2,000

Images



Western blot analysis of Collagen X on human skin lysates using anti-Collagen X antibody at 1/1,000 dilution.

Background

Collagen Type X is associated with hypertrophic chondrocytes of avian and mammalian growth plate tissues during the endochondral growth of long

bones. It is a component of normal articular cartilage in adult human, growing pig and newborn rat, and it is also present during any disruption of normal metabolic status of articular cartilage that occur with osteoarthritis. Collagen Type X is composed of three identical $\alpha 1(X)$ chains, each containing a triple-helical region flanked by a short N-terminal sequence and a larger non-collagenous C-terminal (NC1) domain. Mutations in COL10A1, the gene encoding for Collagen Type X, are associated with metaphyseal dysplasia type Schmid (SMCD) and other related forms of metaphyseal dysplasia. SMCD is characterized by short-limbed dwarfism, an outward "flaring" of the lower rib cage, bowed legs, leg pain and a hip deformity that causes the thigh bone to angle toward the center of the body.

References

Note: This product is for in vitro research use only and is not intended for use in humans or animals.