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Collagen X Rabbit pAb

Catalog # AP96442

Product Information

Application	WB
Primary Accession	A1L4P2
Other Accession	A1L4P2
Reactivity	Mouse
Predicted	Human
Host	Rabbit
Clonality	Polyclonal
Calculated MW	73 KDa
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human Collagen X
Epitope Specificity	24-100/680
Isotype	IgG
Purity	affinity purified by Protein A
Buffer	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
SIMILARITY	Contains 1 C1q domain.
SUBUNIT	Homotrimer.
DISEASE	Schmid type metaphyseal chondrodysplasia (SMCD) [MIM:156500]: Dominantly inherited disorder of the osseous skeleton. The cardinal features of the phenotype are mild short stature, coxa vara and a waddling gait. Radiography usually shows sclerosis of the ribs, flaring of the metaphyses, and a wide irregular growth plate, especially of the knees. A variant form of SMCD is spondylometaphyseal dysplasia Japanese type. It is characterized by spinal involvement comprising mild platyspondyly, vertebral body abnormalities, and end-plate irregularity. Note=The disease is caused by mutations affecting the gene represented in this entry.
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	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). [provided by RefSeq, Jul 2008].

Additional Information

Gene ID	1300
Other Names	Col10; Col10a-1; COAA1_BOVIN; COL10A1; A1L4P2_HUMAN; COAA1_HUMAN; collagen type X alpha 1 chain; collagen, type X, alpha 1; Schmid metaphyseal chondrodysplasia
	WB=1:500-2000

Dilution	
Storage	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.

Protein Information

Name	Collagen X Rabbit pAb
Function	Type X collagen is a product of hypertrophic chondrocytes and has been localized to presumptive mineralization zones of hyaline cartilage.

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