

Summary

Production Name	COL9A3 Rabbit Polyclonal Antibody
Description	Rabbit Polyclonal Antibody
Host	Rabbit
Application	IF,ELISA
Reactivity	Human,Rat,Mouse

Performance

Conjugation	Unconjugated
Modification	Unmodified
Isotype	IgG
Clonality	Polyclonal
Form	Liquid
Storage	Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze/thaw cycles.
Buffer	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% New type preservative N.
Purification	Affinity purification

Immunogen

Gene Name	COL9A3
Alternative Names	COL9A3; Collagen alpha-3(IX) chain
Gene ID	1299.0
SwissProt ID	Q14050.The antiserum was produced against synthesized peptide derived from human Collagen IX alpha3. AA range:321-370

Application

Dilution Ratio	IF 1:200-1:1000. ELISA: 1:10000.
Molecular Weight	

Background

This gene encodes one of the three alpha chains of type IX collagen, the major collagen component of hyaline cartilage.

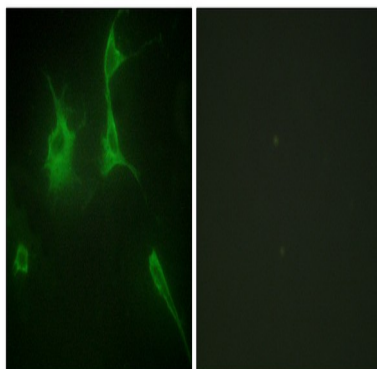
Product Name: COL9A3 Rabbit Polyclonal Antibody
Catalog #: APRab09201



Type IX collagen, a heterotrimeric molecule, is usually found in tissues containing type II collagen, a fibrillar collagen. Mutations in this gene are associated with multiple epiphyseal dysplasia type 3. [provided by RefSeq, Jan 2010],disease:Defects in COL9A3 are the cause of multiple epiphyseal dysplasia type 3 (EDM3) [MIM:600969]; also known as multiple epiphyseal dysplasia with myopathy. EDM is a generalized skeletal dysplasia associated with significant morbidity. Joint pain, joint deformity, waddling gait, and short stature are the main clinical signs and symptoms. EDM is broadly categorized into the more severe Fairbank and the milder Ribbing types.,function:Structural component of hyaline cartilage and vitreous of the eye.,PTM:Covalently linked to the telopeptides of type II collagen by lysine-derived cross-links.,PTM:Prolines at the third position of the tripeptide repeating unit (G-X-Y) are hydroxylated in some or all of the chains.,similarity:Belongs to the fibril-associated collagens with interrupted helices (FACIT) family.,subunit:Heterotrimer of an alpha 1(IX), an alpha 2(IX) and an alpha 3(IX) chain.,

Research Area

Image Data



Immunofluorescence analysis of NIH/3T3 cells, using Collagen IX alpha3 Antibody. The picture on the right is blocked with the synthesized peptide.

Note

For research use only.