



CO9A2 Monoclonal Antibody

Catalog No	YP-mAb-05043
Isotype	IgG
Reactivity	Human;Mouse;Rat
Applications	WB
Gene Name	COL9A2
Immunogen	Synthesized peptide derived from human protein . at AA range: 540-620
Specificity	CO9A2 Monoclonal Antibody detects endogenous levels of protein.
Formulation	Liquid in PBS containing 50% glycerol, and 0.02% sodium azide.
Source	Monoclonal, Mouse,IgG
Purification	The antibody was affinity-purified from mouse antiserum by affinity-chromatography using epitope-specific immunogen.
Dilution	WB 1:500-1:2000
Concentration	1 mg/ml
Purity	≥90%
Storage Stability	-20°C/1 year
Synonyms	Collagen alpha 2(IX) chain;Collagen alpha-2(IX) chain;Collagen IX;Collagen Type IX;EDM2;CO9A2;COL9A2
Observed Band	68 kDa
Calculated Molecular Weight	689 aa, 65 kDa
Cell Pathway	Secreted, extracellular space, extracellular matrix .
Tissue Specificity	Cartilage,Foreskin,
Function	disease:Defects in COL9A2 are the cause of multiple epiphyseal dysplasia type 2 (EDM2) [MIM:600204]. 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. EDM2 inheritance is autosomal dominant.,disease:Defects in COL9A2 may be a cause of susceptibility to intervertebral disc disease (IDD) [MIM:603932]. IDD is one of the most common musculo-skeletal disorders.,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 fib

**Background**

This gene encodes one of the three alpha chains of type IX collagen, the major collagen component of hyaline cartilage. Type IX collagen, a heterotrimeric molecule, is usually found in tissues containing type II collagen, a fibrillar collagen. This chain is unusual in that, unlike the other two type IX alpha chains, it contains a covalently attached glycosaminoglycan side chain. Mutations in this gene are associated with multiple epiphyseal dysplasia. [provided by RefSeq, Jul 2008],

matters needing attention

Avoid repeated freezing and thawing!

Usage suggestions

This product can be used in immunological reaction related experiments. For more information, please consult technical personnel.

Products Images