

PGCA (Cleaved-Ala17) rabbit pAb

Catalog No :	YC0112
Reactivity :	Human;Rat
Applications :	WB;ELISA;IHC
Target :	PGCA
Gene Name :	ACAN AGC1 CSPG1 MSK16
Protein Name :	PGCA (Cleaved-Ala17)
Human Swiss Prot No :	P16112
Mouse Gene Id :	11595
Mouse Swiss Prot No :	Q61282
Rat Gene Id :	58968
Rat Swiss Prot No :	P07897
Immunogen :	Synthesized peptide derived from human PGCA (Cleaved-Ala17)
Specificity :	This antibody detects endogenous levels of Human,Rat PGCA (Cleaved-Ala17, protein was cleaved amino acid sequence between 16-17)
Formulation :	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Source :	Polyclonal, Rabbit,IgG
Dilution :	WB 1:500-2000;IHC 1:50-300; ELISA 2000-20000
Purification :	The antibody was affinity-purified from rabbit serum by affinity-chromatography using specific immunogen.
Concentration :	1 mg/ml

Storage Stability : -15°C to -25°C/1 year(Do not lower than -25°C)

Observed Band : 240-260kD

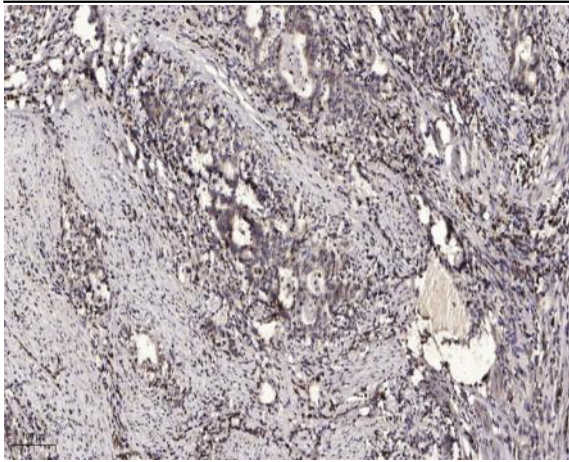
Background : alternative products:Additional isoforms seem to exist,developmental stage:Expression was detected in chondrocytes throughout the developing skeleton.,disease:Defects in ACAN are the cause of spondyloepiphyseal dysplasia type Kimberley (SEDK) [MIM:608361]. Spondyloepiphyseal dysplasias are a heterogeneous group of congenital chondrodysplasias that specifically affect epiphyses and vertebrae. The autosomal dominant SEDK is associated with premature degenerative arthropathy.,domain:Two globular domains, G1 and G2, comprise the N-terminus of the proteoglycan, while another globular region, G3, makes up the C-terminus. G1 contains Link domains and thus consists of three disulfide-bonded loop structures designated as the A, B, B' motifs. G2 is similar to G1. The keratan sulfate (KS) and the chondroitin sulfate (CS) attachment domains lie between G2 and G3.,function:This proteoglycan is a major component of extracellular matrix of cartilagenous tissues. A major function of this protein is to resist compression in cartilage. It binds avidly to hyaluronic acid via an N-terminal globular region.,online information:Aggrecan,PTM:Contains mostly chondroitin sulfate, but also keratan sulfate chains, N-linked and O-linked oligosaccharides. The release of aggrecan fragments from articular cartilage into the synovial fluid at all stages of human osteoarthritis is the result of cleavage by aggrecanase.,similarity:Belongs to the aggrecan/versican proteoglycan family.,similarity:Contains 1 C-type lectin domain.,similarity:Contains 1 EGF-like domain.,similarity:Contains 1 Ig-like V-type (immunoglobulin-like) domain.,similarity:Contains 1 Sushi (CCP/SCR) domain.,similarity:Contains 4 Link domains.,subunit:Interacts with FBLN1.,tissue specificity:Restricted to cartilages.,

Function : skeletal system development, cartilage condensation, chondrocyte differentiation, chondrocyte development,proteoglycan metabolic process, proteolysis, cell adhesion, glycoprotein metabolic process, glycoprotein biosynthetic process, cell-cell adhesion, biological adhesion, proteoglycan biosynthetic process, extracellular matrix organization,collagen fibril organization, extracellular structure organization, skeletal system morphogenesis, cartilage development,

Subcellular Location : Secreted, extracellular space, extracellular matrix .

Expression : Restricted to cartilages.

Products Images



Immunohistochemical analysis of paraffin-embedded human Gastric adenocarcinoma. 1, Antibody was diluted at 1:200(4° overnight). 2, Tris-EDTA,pH9.0 was used for antigen retrieval. 3,Secondary antibody was diluted at 1:200(room temperature, 45min).