PGCA (Cleaved-Ala17) mouse mAb

Catalog No	YP-mAb-12599
Isotype	IgG
Reactivity	Human;Rat
Applications	WB
Gene Name	ACAN AGC1 CSPG1 MSK16
Protein Name	PGCA (Cleaved-Ala17)
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	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	Aggrecan core protein (Cartilage-specific proteoglycan core protein;CSPCP;Chondroitin sulfate proteoglycan core protein 1;Chondroitin sulfate proteoglycan 1) [Cleaved into: Aggrecan core protein 2]
Observed Band	240-260kD
Cell Pathway	Secreted, extracellular space, extracellular matrix .
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,
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.,
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.

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