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AM32584SU-N OriGene EU

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Monoclonal Antibody to Chondroitin-6-Sulphate - Ascites

Catalog No.: AM32584SU-N

Quantity: 0.1 ml

Host / Isotype: Mouse / IgG1 Clone: MK-302

Immunogen: Chondroitinase ABC-digested adult Human Aggrecan.

Format: State: Liquid Ascites

Preservatives: None Stabilizers: None

Applications: ELISA: 1/100-1/5,000.

RIA: 1/100-1/200.

Chondroitinase ABC digestion prior to antibody reaction is required for antibody reactivity. {0.5U/mL in 100mM Tris-HCL, 30 minutes room temperature} A dramatic proteolytic digestion of the core protein (e.g. with papain or pronase) significantly reduces the

antibody reactivity.

Other applications not tested. Optimal dilutions are dependent on conditions and should

be determined by the user.

Specificity: This antibody is not species specific, thus, it recognizes Chondroitin-6-Sulfate stubs of

all proteoglycans of all species.

Reacts with a wide range of cartilage proteoglycans after either chondroitinase (ABC or AC) or testicular hyaluronidase digestion. Native proteoglycans do not react with this

antibody.

Antibody binding to epitope is successfully inhibited by disaccharides of

Chondroitin-6-Sulfate.

Recognizes the Chondroitin-6-Sulfate stubs (preferentially in clusters) of high density

cartilage proteoglycans of different species.

No cross-reactivity with dermatan sulfate, keratan sulfate or Chondroitin-4-sulfate.

Species: Bovine, Canine, Human, Mouse, Rat, Rabbit, Sheep.

Other species not tested.

Storage: Store undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer.

Avoid repeated freezing and thawing. Shelf life: one year from despatch.

General Readings: 1. Glant TT, Mikecz K, Poole AR. Monoclonal antibodies to different protein-related epitopes

of human articular cartilage proteoglycans. Biochem J. 1986 Feb 15;234(1):31-41. PubMed

PMID: 2423072.

2. Arthritis Rheum. (1987). 30:306-318.

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- 3. Poole CA, Glant TT, Schofield JR. Chondrons from articular cartilage. (IV). Immunolocalization of proteoglycan epitopes in isolated canine tibial chondrons. J Histochem Cytochem. 1991 Sep;39(9):1175-87. PubMed PMID: 1717545.
- 4. Glant TT, Buzás EI, Finnegan A, Negroiu G, Cs-Szabó G, Mikecz K. Critical roles of glycosaminoglycan side chains of cartilage proteoglycan (aggrecan) in antigen recognition and presentation. J Immunol. 1998 Apr 15;160(8):3812-9. PubMed PMID: 9558085.
- 5. Nicodemus GD, Skaalure SC, Bryant SJ. Gel structure has an impact on pericellular and extracellular matrix deposition, which subsequently alters metabolic activities in chondrocyte-laden PEG hydrogels. Acta Biomater. 2011 Feb;7(2):492-504. doi: 10.1016/j.actbio.2010.08.021. Epub 2010 Sep 8. PubMed PMID: 20804868.
- 6. Hang Wang, Yasuhiro Katagiri, Thomas E McCann, Edward Unsworth, Paul Goldsmith, Zu-Xi Yu, Fei Tan, Lizzie Santiago, Edward M Mills, Yu Wang, Aviva J Symes, Herbert M Geller (2008) Journal of cell science. 121.
- 7. Yvette M Coulson-Thomas, Vivien J Coulson-Thomas, Thais R Filippo, Renato A Mortara, Rafael B da Silveira, Helena B Nader, Marimélia A Porcionatto (2008) Journal of neuroscience methods. 171.



Acris Antibodies is now part of the OriGene family. Learn more at www.origene.com