abcam

Product datasheet

Anti-Chondroitin Sulfate antibody [CS-56] ab11570

6 Abreviews 63 References 3 Images

Overview

Product name	Anti-Chondroitin Sulfate antibody [CS-56]
Description	Mouse monoclonal [CS-56] to Chondroitin Sulfate
Host species	Mouse
Specificity	The antibody has been reported to be specific for the glycosaminoglycan (GAG) portion of native chondroitin sulfate proteoglycan (CSPG). The antibody reacts specifically with chondroitin sulfate types A and C but not with type B (dermatan sulfate), and may be used for localization of chondroitin sulfate in tissues and cultured fibroblasts.
Tested applications	**Suitable for:** Electron Microscopy, IHC-P, ICC/IF
Species reactivity	**Reacts with:** Mouse, Chicken, Cow, Human, Apteronotus leptorhynchus
Immunogen	Tissue, cells or virus corresponding to Chicken Chondroitin Sulfate.
Positive control	Bovine mammary gland epithelial (BMGE) cells. IHC-P: human colon cancer sections
General notes	This product was changed from ascites to tissue culture supernatant on 25th October 2016. The following lot(s) is/are from ascites and is still in stock as of 25th October 2016 - GR288674, GR272407. Lot numbers higher than GR288674, GR272407 will be from tissue culture supernatant. Please note that the dilutions may need to be adjusted accordingly Storage in frost-free freezers is not recommended. If slight turbidity occurs upon prolonged storage, clarify the solution by centrifugation before use. Many cellular activities depend on the interaction of cells with the surrounding extracellular matrix (ECM). Most cells, in intact tissue and in culture, are attached to an ECM. Epithelial cells are associated with the basement membrane; fibroblastic cells are usually embedded in a pericellular mesh of fibrils, and tissue culture cells usually grow on a substrate which is covered by various ECM components. Studies have indicated that the matrix or its various isolated components provide not only adhesive surfaces for cells to grow on but also have effects on the rate of cell growth, mobility, morphogenesis and differentiation. Within the ECM several glycoproteins and proteoglycans have been identified. It has been proposed that the different constituents interact with each other in a rather complex fashion. The poor antigenicity of proteoglycans especially their glycoaminoglycan (GAG) moieties make it difficult to localize these molecules in tissue and cell culture. Monoclonal Anti-Chondroitin Sulfate can be used to study chondroitin sulfate proteoglycan (CSPG) distribution and its relationships to specific cell-substrate contacts. The Life Science industry has been in the grips of a reproducibility crisis for a number of years. Abcam is leading the way in addressing this with our range of recombinant monoclonal antibodies and knockout edited cell lines for gold-standard validation. Please check that this product meets your needs before purchasing.

If you have any questions, special requirements or concerns, please send us an inquiry and/or contact our Support team ahead of purchase. Recommended alternatives for this product can be found below, along with publications, customer reviews and Q&As

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Upon delivery aliquot and store at -20°C or -80°C. Avoid repeated freeze / thaw cycles.
Storage buffer	pH: 7.40 Preservative: 0.097% Sodium azide Constituent: PBS
Purity	Proprietary Purification
Purification notes	Purified from Tissue culture supernatant.
Clonality	Monoclonal
Clone number	CS-56
Isotype	IgM

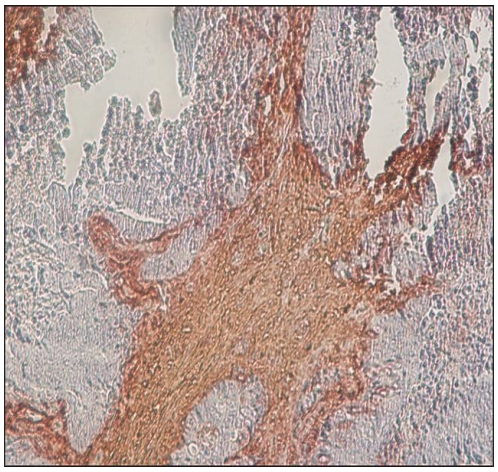
Applications

The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab11570 in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

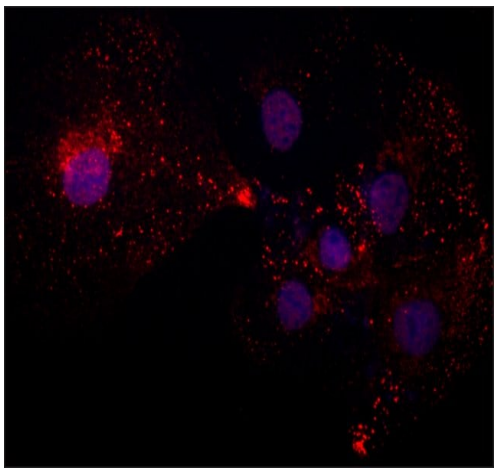
Application	Abreviews	Notes
Electron Microscopy		Use at an assay dependent concentration.
IHC-P	★★★★★ **(3)**	1/2500.
ICC/IF		Use at an assay dependent concentration.

Images



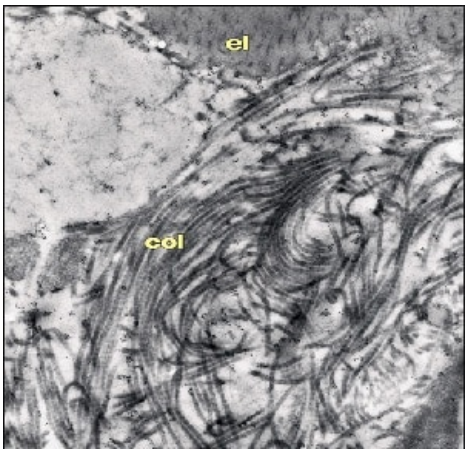
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Chondroitin Sulfate antibody [CS-56] (ab11570)

Immunohistochemical analysis of formalin-fixed, paraffin-embedded human colon cancer sections labelling chondroitin sulfate with ab11570 at 1/2500 dilution.



Immunocytochemistry/ Immunofluorescence - Anti-Chondroitin Sulfate antibody [CS-56] (ab11570)

This antibody was developed using Goat Anti-Mouse IgM, Cy3™ conjugate.
Immunocytochemistry analysis of cow mammary gland epithelial cells labeling Chondroitin Sulfate with ab11570 at 2.5 µg/mL. Cells were fixed and permeabilized with 4% Paraformaldehyde and 0.5% Triton X-100. The antibody was developed using Goat Anti-Mouse IgG, Cy3™ conjugate. Cells were counterstained with DAPI (blue) to stain nuclei.



Electron Microscopy - Anti-Chondroitin Sulfate antibody [CS-56] (ab11570)

Normal rabbit aorta, Lowicryl K4M thin section, stained with Monoclonal Anti-Chondroitin Sulfate, ab11570 and Goat Anti-Mouse IgM (µ-chain specific) 10 nm gold. Counterstain was uranyl acetate and Reynold's lead citrate. Magnification 44,600x. (el=Elastin, col=Collagen).

Please note: All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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