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Технические характеристики

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Anti-Glycosaminoglycan Antibodies

The extracellular matrix (ECM) is an essential element for higher organisms to form cells, tissues, and organs; to control cell-cell connections and functions. The ECM also greatly affects several biological phenomena (such as development, aging, inflammation, wound healing, and immunity). Glycosaminoglycans (GAG), such as chondroitin sulfate, hyaluronic acid and keratan sulfate, are major components of the ECM and play an important role. Analysis of glycosaminoglycans is very difficult, especially when performing in situ analysis of cells and tissues. Thus, antibodies are particularly important as a detection tool.

Anti-Keratan Sulfate Monoclonal Antibody (R-10G)

Isotype: Mouse IgG₁

0.1mg/vial [A2968]

Anti-Chondroitin Sulfate D Monoclonal Antibody (MO-225)

Isotype: Mouse IgM

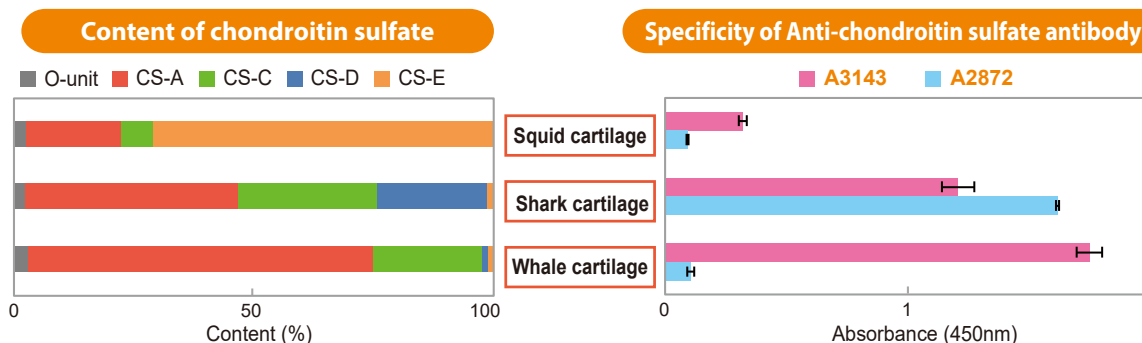
0.1mg/vial [A2872]

Anti-Chondroitin Sulfate A Monoclonal Antibody (LY111)

Isotype: Mouse IgM

0.1mg/vial [A3143]

Anti-chondroitin sulfate antibody can be utilized for detection of the chondroitin sulfate A or D



These chondroitin sulfate were coated on ELISA plate. These antigens and anti-chondroitin sulfate antibodies were reacted at appropriate time, then primary antibodies were detected using appropriate secondary antibodies.

References

Anti-Keratan Sulfate Monoclonal Antibody (R-10G) [A2968]

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- 2) A Cytotoxic Antibody Recognizing Lacto-N-fucopentaose I (LNFP I) on Human Induced Pluripotent Stem (hiPS) Cells.
S. Matsumoto, H. Nakao, K. Kawabe, M. Nonaka, H. Toyoda, Y. Takishima, K. Kawabata, T. Yamaguchi, M. K. Furue, T. Taki, T. Okumura, Y. Yamazaki, S. Nakaya, N. Kawasaki, T. Kawasaki, *J. Biol. Chem.* **2015**, 290, 20071.
- 3) Characterization of glycoproteins expressing the blood group H type 1 epitope on human induced pluripotent stem (hiPS) cells.
H. Nakao, S. Matsumoto, Y. Nagai, A. Kojima, H. Toyoda, N. Hashii, D. Takakura, N. Kawasaki, T. Yamaguchi, K. Kawabata, N. Kawasaki, T. Kawasaki, *Glycoconj. J.* **2016** Jul 19. [Epub ahead of print]
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Anti-Chondroitin Sulfate D Monoclonal Antibody (MO-225) [A2872]

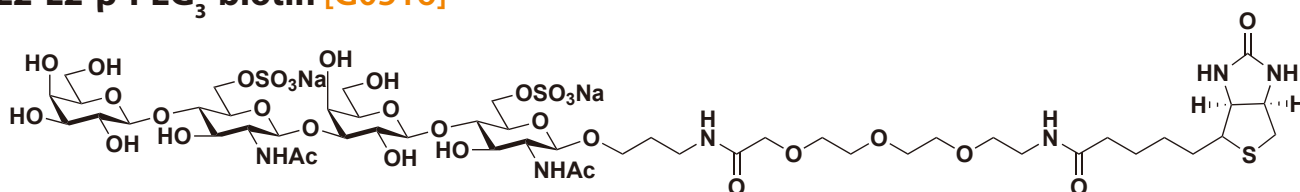
- 1) A Monoclonal Antibody That Specifically Recognizes a Glucuronic Acid 2-Sulfate-containing Determinant in Intact Chondroitin Sulfate Chain.
M. Yamagata, K. Kimata, Y. Oike, K. Tani, N. Maeda, K. Yoshida, Y. Shimomura, M. Yoneda, S. Suzuki, *J. Biol. Chem.* **1987**, 262, 4146.
- 2) Distribution of chondroitin sulphate proteoglycans and peanut agglutinin-binding molecules during bovine fetal palatine ridge formation.
M. Takanosu, H. Amasaki, S. Matsumoto, K. Kimata, *J. Anat.* **1996**, 189, 109.
- 3) Structural characterization of the epitopes of the monoclonal antibodies 473HD, CS-56, and MO-225 specific for chondroitin sulfate D-type using the oligosaccharide library.
Y. Ito, M. Hikino, Y. Yajima, T. Mikami, S. Sirko, A. V. Holst, A. Faissner, S. Fukui, K. Sugahara, *Glycobiology* **2005**, 15, 593.

Anti-Chondroitin Sulfate A Monoclonal Antibody (LY111) [A3143]

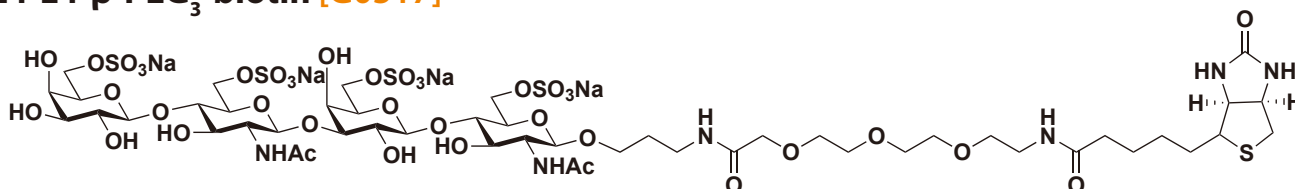
- 1) Occurrence of collagen and proteoglycan forms of type IX collagen in chick embryo cartilage. Production and characterization of a collagen form-specific antibody.
T. Yada, M. Arai, S. Suzuki, K. Kimata, *J. Biol. Chem.* **1992**, 267, 9391.
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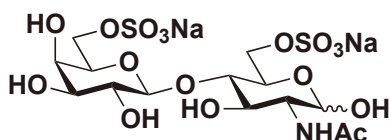
L2-L2- β -PEG₃-biotin [G0516]



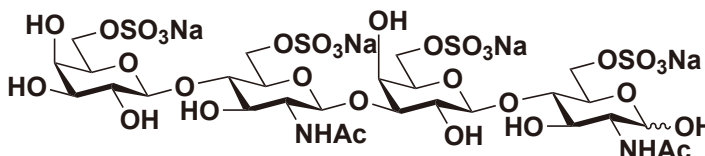
L4-L4- β -PEG₃-biotin [G0517]



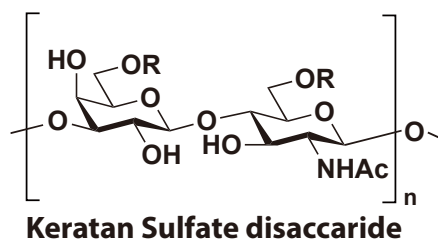
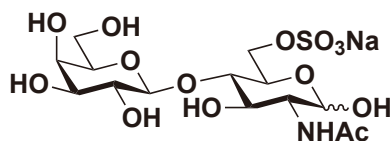
L4 [L0325]



L4-L4 [L0286]



L2 [L0324]



Hyaluronic Acid from Bacteria	1g [H1807]
Hyaluronic Acid Sodium Salt from Bacteria	100mg / 1g [H1791]
Hyaluronic Acid Potassium Salt from Bacteria	1g [H1808]
Hyaluronic Acid from Cockscomb	1g [H0595]
Hyaluronic Acid Sodium Salt from Cockscomb	100mg / 1g [H0603]
Hyaluronic Acid Potassium Salt from Cockscomb	1g [H0652]
Hyaluronate Tetrasaccharide	1mg / 5mg [H1284]
Hyaluronate Hexasaccharide	1mg / 5mg [H1285]
Hyaluronate Octasaccharide	1mg [H1148]
Hyaluronate Decasaccharide	1mg [H1149]
Hyaluronate Dodecasaccharide	1mg [H1666]
Dermatan Sulfate Sodium Salt	20mg / 100mg [D3672]

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