

chondroitin sulfate (J-4): sc-139588

BACKGROUND

Chondroitin sulfate is a sulfated glycosaminoglycan (GAG) composed of a chain of alternating sugars, usually attached to proteins as part of a proteoglycan. Chondroitin sulfate is a major component of the extracellular matrix, and it plays a key role in maintaining the structural integrity of the tissue. Chondroitin sulfate is an important structural component of cartilage and is responsible for most of its resistance to compression. This molecule also has regulatory roles, as it readily interacts with proteins in the extracellular matrix due to its negative charges. These interactions are important for regulating a diverse array of cellular activities. In the nervous system, chondroitin sulfate proteoglycans function to regulate the growth and development of the nervous system as well as the nervous system response to injury. Chondroitin is commonly used in dietary supplements as an alternative medicine to treat osteoarthritis.

REFERENCES

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SOURCE

chondroitin sulfate (J-4) is a rabbit polyclonal antibody raised against chondroitin sulfate of synthetic origin.

PRODUCT

Each vial contains 100 µg IgG in 1.0 ml PBS with < 0.1% sodium azide, 0.1% gelatin and < 0.02% sucrose.

STORAGE

Store at 4° C, ****DO NOT FREEZE****. Stable for one year from the date of shipment. Non-hazardous. No MSDS required.

APPLICATIONS

chondroitin sulfate (J-4) is recommended for detection of chondroitin sulfate by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunofluorescence (starting dilution 1:50, dilution range 1:50-1:500) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

RECOMMENDED SECONDARY REAGENTS

To ensure optimal results, the following support (secondary) reagents are recommended: 1) Western blotting: use goat anti-rabbit IgG-HRP: sc-2004 (dilution range: 1:2000-1:100,000) or Cruz Marker™ compatible goat anti-rabbit IgG-HRP: sc-2030 (dilution range: 1:2000-1:5000), Cruz Marker™ Molecular Weight Standards: sc-2035, TBS Blotto A Blocking Reagent: sc-2333 and Western Blotting Luminol Reagent: sc-2048. 2) Immunofluorescence: use goat anti-rabbit IgG-FITC: sc-2012 (dilution range: 1:100-1:400) or goat anti-rabbit IgG-TR: sc-2780 (dilution range: 1:100-1:400) with UltraCruz™ Mounting Medium: sc-24941.

RESEARCH USE

For research use only, not for use in diagnostic procedures.

PROTOCOLS

See our web site at www.scbt.com or our catalog for detailed protocols and support products.



Try **chondroitin sulfate (A-7): sc-393956**, our highly recommended monoclonal alternative to chondroitin sulfate (J-4).