



PRODUCT DATA SHEET

Product: Anti-human Chondroitin/Keratan Sulfate Proteoglycan of Cartilage, Clone 6F4

Cat. No: MC-798 (100 µl)

Specificity:

Reacts with chondroitin sulfate proteoglycan from cartilage (aggrecan).

Species Reactivity:

Reacts with human. No crossreactivity with bovine nasal cartilage, rat chondrosarcoma, chick or shark cartilage aggrecan. Other species not tested.

Controls: Purified antigen, cartilage extracts or mature cultured chondrocytes.

Ig Isotype: mouse IgG1b

Immunogen:

Human large molecular weight proteoglycan of articular cartilage (aggrecan).

Epitope:

The epitope resides within fragments of 55-95 kDa generated by trypsin digestion of the core protein. In solid phase immunoassays, endo-beta-galactosidase digestion of aggrecan increases the immunoreactivity of the antibody, suggesting that the epitope may lie within or near the KS containing region

Format:

100 µl ascites containing 0.01% sodium azide. Antibody concentration >1 mg/ml.

Storage and Stability:

Stable for 1 year when stored properly. +4°C short term, -20°C long term. Aliquot to avoid cycles of freeze/thaw.

Applications and Suggested Dilutions:

■ ELISA: 1:500-1:1,000 (highest ELISA reactivity of our 3 anti-chondroitin/keratan sulfate proteoglycans). In solid phase immunoassays, endo-beta-galactosidase digestion of aggrecan increases the immunoreactivity of the antibody. Also reacts with papain-digested aggrecan.

■ Immunohistochemistry: (paraffin embedded): 1:50-1:3,000. Treat tissue sections with 2 mg/ml testicular hyaluronidase in 50 mM Na-acetate buffer, pH 5.5 for 1 hr at 37°C, followed by treatment with 0.2 mg/ml Protease XXIV in TBS, pH 7.2, for the same time and temperature.

■ Immunoprecipitation: 1:50-1:300

■ Western blotting: 1:100-1:300 Reacts with 3 trypsin-generated fragments of human cartilage aggrecan (prior digested with chondroitinase and endo-beta-galactosidase) which have apparent MW of 55, 65 and 95 kDa.

The optimal dilution for a specific application should be determined by the researcher.

Limitations:

For *in vitro* research use only. Not for use in diagnostics or in humans.

Warranty:

No warranties, expressed or implied, are made regarding the use of this product. KAMIYA BIOMEDICAL COMPANY is not liable for any damage, personal injury, or economic loss caused by this product.