

CATALOG # 270433-1
Package Size: 0.2 mg/vial

Monoclonal Anti-Proteoglycan Δ Di-6S

CLONE: 3-B-3 **ISOTYPE:** Mouse IgM, κ -chain

IMMUNOGEN: Proteoglycan was digested with Chondroitinase ABC

Physical State: Liquid
Purification: Affinity purified by Cellulofine GCL-2000-sf gel filtration
Concentration: 1 mg/ml (Immunoglobulin fractions)
Volume: 200 μ l/vial
Buffer: Phosphate-Buffered Saline (-) [PBS (-)]
Stabilizer: None
Preservative: 0.02% sodium azide

SPECIFICITY:

Recognition: Three (1-B-5, 2-B-6, 3-B-3) monoclonal antibodies have been produced which specifically recognize unsulfated (0S), 4 sulfated (4S) and 6 sulfated (6S) chondroitin and dermatan sulphate following chondroitinase ABC (ChABC) digestion of various proteoglycans (PG).¹ Self association among the glycosaminoglycans (GAG) and interaction with other extracellular matrix components may be affected by the particular charge organizations on the GAG molecule endowed by the sulphate groups.¹ Therefore, these antibodies provide an important tool to study the distribution of specific types of chondroitin sulphate chains which appear to show significant tissue specificity.¹ The three monoclonals react with the chondroitin sulfate "stubs" which remain after extensive ChABC digestion. The antibody specificity is according to the sulphated position (4S, 6S) or unsulfated position (0S) of these "stubs".

Localization: The monoclonal antibodies should be reactive with PG from any species which contain chondroitin sulfate chains susceptible to ChABC digestion and which are sulphated in the proper positions.

Comment: The antibody has also been used in inhibition EIA and RIA assays.

APPLICATIONS:

The exact dilution must be determined by the researcher.

Immunohistochemistry: 1:100
ELISA: 1:1000-2000

STORAGE:

Store at 4°C until opened. Diluted material should be used within a week. *Avoid repeated freezing and thawing.*

REFERENCES:

- 1) Couchman, J.R. et al. (1984) *Nature.*, **307**, 650-652
- 2) Sorrell, J.M. et al. (1988) *J. Immunol.*, **140**, 4263-4270
- 3) Fukatu, T. et al. (1992) *Br. J. Cancer*, **57**, 74-78

NOTE:

For *in vitro* research use only. Not for diagnostic or therapeutic use. This product is not a medical device. This product is warranted for a period of one year after date of receipt when storage and usage conditions are adhered to as described on the package insert.



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