

Monoclonal Antibody to Chondroitin Sulfate Neoepitope

Catalog Number 1042014

For research use only

INTRODUCTION	Recognizes δ unsaturated disaccharides of unsulfated chondroitin generated by chondroitinase ABC digestion.
IMMUNOGEN	Bovine nasal cartilage aggrecan that had been deglycosylated with chondroitinase ABC digestion; i.e. BNC (ABC) Core (see Couchman et al 1984 and Caterson et al 1985).
CLONE	1B5
HOST	Mouse
ISOTYPE	IgG1K
SPECIFICITY	This antibody recognizes zero sulfated Chondroitin Sulfate stub neo epitope generated by chondroitinase ABC treatment.
PURITY	Protein A
STORAGE BUFFER	PBS, no preservatives
FORM	Clear liquid
CONCENTRATION	Please see vial label for concentration.

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APPLICATION

WB: Use at a dilution of 1/100.
Optimal dilutions/concentrations should be determined by the end user. This antibody should work in IHC on formalin- or paraformaldehyde-fixed paraffin embedded sections as well as either alcohol-fixed frozen sections or un-fixed snap-frozen sections.

TECHNICAL NOTES

Samples are usually deglycosylated using 0.01 Units Chondroitinase ABC (Sigma), 0.01 Units Keratanase (Seikagaku) and 0.0001 Units Keratanase II (Seikagaku) per 10ug S-GAG of non-deglycosylated aggrecan for optimal epitope recognition in SDS-PAGE and immunohistochemistry.

EXPIRATION

See Vial Label

STORAGE

The antibody is stable until the expiry date given on the label if stored at -20 °C. Repeated freezing and thawing should be avoided. Aliquoting is recommended.

REFERENCES

1. A.J. Hayes et al. (2008) *Methods* 45:10-21
2. Couchman JR, Caterson B, Christner JB, Baker JR (1984) Mapping by monoclonal antibody detection of glycosaminoglycans in connective tissues. *Nature* 307:650-652
3. Caterson B, Christner JE, Baker JR, Couchman JR (1985) Production and characterization of monoclonal antibodies directed against connective tissue proteoglycans. *Fed Proc* 44:386-393
4. Anthony J. Hayes, Amanda Hall, Liesbeth Brown, Ross Tubo, and Bruce Caterson (2007) Macromolecular Organization and In Vitro Growth Characteristics of Scaffold-free Neocartilage Grafts *Journal of Histochemistry & Cytochemistry* Volume 55(8): 853-866

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