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NB600-504 Protocol

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Protocol specific for Aggrecan Neoepitope Antibody (NB600-504)

This protocol is from the reference Roberts S et al. Matrix metalloproteinases and aggrecanase: their role in disorders of the human intervertebral disc. Spine 25:3005-13 (2000). PubMed: 11145811

- 1. Immunostaining with enzyme-generated antibodies BC3, 13, 4, and 14 was carried out on 19 discs from patients 11-59 years of age (1 with prolapse, 2 with scoliosis, 2 with spondylolisthesis, and the remainder with degenerative disc disease).
- 2. Different fixation treatments were used to optimize antigen preservation and staining of the cryosections; for example, 70% ethanol, 100% ethanol, 10% formaldehyde, or no fixation was used.
- 3. After this treatment, sections to be stained for BC 3 and 14 were digested with keratanase I, II, and chondroitinase ABC for 3 hours, and those to be stained for BC4 and 13 were digested with chondroitinase ABC for only 90 minutes.
- 4. Labeling was as for paraffin sections with other antibodies.
- 5. Staining was done on 5 um paraffin sections that then were deparaffinized with xylene and rehydrated through a series of alcohols to phosphate buffered saline (PBS). Staining conditions were optimized for each individual antibody... no pretreatment was found necessary.
- 6. Sequential blocking of endogenous peroxidase activity was performed with 0.3% hydrogen peroxide in PBS and then 20% normal human and horse serum and 3% bovine serum albumin in PBS.
- 7. The primary antibody was incubated for 90 minutes at room temperature before labeling with peroxidase linked to a biotin-streptavidin complex using diaminobenzadine as the colorimetric substrate, then washing, dehydrating, and mounting in pertex.

Adjacent control sections were incubated with either a class-matched immunoglobulin raised to an irrelevant antigen or PBS in place of the primary antigen.