Expression of NG2 proteoglycan in the degenerated intervertebral disc in dachshunds.


Abstract:

The pathogenesis of intervertebral disc (IVD) degeneration is not fully understood. The biomolecular signaling pathways involved in the IVD degeneration require further investigation. The aim of this study was to investigate the expression of NG2 proteoglycan in the degenerated IVD. IVD samples were obtained from 16 Dachshunds that were confirmed to have IVD herniation and subsequently underwent hemilaminectomy. The samples were subjected to histological and immunohistochemical (IHC) examinations. IHC revealed positive results for the expression of NG2 proteoglycan in all examined samples. The results showed the expression of NG2 proteoglycan by the degenerated IVDs.

Keywords:

dachshund, immunohistochemistry, intervertebral disc (IVD) degeneration, NG2 proteoglycan

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