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(54) Title: HUMAN RESTRICTIN AND NUCLEIC ACID SEQUENCES

(57) Abstract

Human restrictin proteins and nucleic acid sequences encoding them are provided. Antibodies which recognize human restrictin in human brain are disclosed. In the human brain, restrictin occurs as two major polypeptides of 180 and 160 kD located in fiber tracts. These polypeptides are similar to those seen in rat brain. Surprisingly, restrictin has also been found in the peripheral nerves of rats and humans. The antibodies also detect a 170 kD polypeptide in MATRIGEL™, an extracellular matrix product of rat EHS sarcoma cells widely used as a tissue culture substrate. Monoclonal antibodies to human restrictin and assays using the human restrictin protein, antibodies and DNA sequences are also provided.

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