

A PREEMBEDDING COMPARATIVE STUDY OF LOCALIZATION OF CHOLINE ACETYLTRANSFERASE USING MONOCLONAL ANTIBODIES.

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Peroxidase-anti-peroxidase method (PAP) has been used for immuno-cytochemical localization of choline acetyltransferase with mono-clonal antibodies. Until now other two methods, avidin-biotin - system (ABS) and streptavidin system (SAS) were rarely used. We have compared the three systems (PAP,ABS,SAS) using a monoclo-nal antibody to choline acetyltransferase, purchased from Boeh-ringer Manheim GmbH.

With a preembedding technique for light and electron microscopy, we study the cholinergic neurons in following areas: nucleus of diagonal band, medial septum, magnocellular preoptic nucleus and nucleus basalis. Our focal points in the study were: staining in tensity, background and spurious staining.

The distribution of cholinergic neurons, in those areas, are like in other reports. Our results may indicate that ABS give best - results than PAP, with the advantage of less expensive method.