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UNIVERSITET

Molecular Biotechnology Programme

Uppsala University School of Engineering

UPTEC X 12 024	Date of issue 2012-11	
Author	Jeanna Högberg	
Title (English)	The localization and function of the synaptic vesicle carrier P4	
Title (Swedish)		
Abstract	<p>P4 is a Solute Carrier with high expression pattern in the brain, especially in monoaminergic and cholinergic areas. The presence of P4 in both these areas is highly unusual and interesting for the research regarding many neurological disorders.</p> <p><i>In-Situ</i> hybridisation, immunohistochemistry and PLA experiments were performed to investigate the presence of P4 in the brain, in neuromuscular junctions and in adrenal glands, the colocation between P4 and VACHT respectively P4 and VMAT and the possibility that P4 is involved in the transport of acetyl choline and monoamines.</p>	
Keywords	P4, transport, monoamines, acetyl choline, VMAT, VACHT, immunohistochemistry, neuromuscular junctions, neurological disorders	
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Project name	Sponsors	
Language	Security	
English		
ISSN 1401-2138	Classification	
Supplementary bibliographical information	Pages	
	25	
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