

	Percentage of anterograde	Percentage of retrograde	Percentage of stationary	Anterograde velocity ($\mu\text{m}/\text{sec}$), mean \pm SEM	Retrograde velocity ($\mu\text{m}/\text{sec}$), mean \pm SEM	Anterograde run length (μm)	Retrograde run length (μm)
APP	48.71	18.46	32.96	1.74 \pm 0.033	1.52 \pm 0.063	5.51 \pm 0.19	4.95 \pm 0.32
BACE-1	55.57	17.93	26.48	2.1 \pm 0.061	1.76 \pm 0.074	8.18 \pm 0.44	5.16 \pm 0.35
NPYss	57.06	22.68	20.24	2.51 \pm 0.058	1.82 \pm 0.074	6.21 \pm 0.23	4.83 \pm 0.26
Rab11	11.54	8.79	79.66	1.68 \pm 0.14	1.93 \pm 0.1	7.25 \pm 0.45	6.03 \pm 0.76
Rab5	3.73	3.68	92.57	1.54 \pm 0.13	1.2 \pm .05	3.7 \pm 0.68	2.74 \pm 0.19

Supplementary Table 1: Transport kinetics of various cargoes in axons

~ 360 APP, 300 BACE-1, 890 NPYss, 55 Rab11 and 120 Rab5 particles from 2-3 separate cultures were analyzed to calculate percentage of frequencies, velocities and run length in axons.