

Table 2 Lipids and GPI-linked proteins in cells^a

Membrane component	Cell	Label	Apparent $D(SPT)$ for mobile fraction	$D(FRAP)$	Comments	Ref.
<i>Lipid analogs</i>						
Fi-PE	Fibroblasts	30 nm Au Ab	12 ± 7 lamella	54 ± 27 (69% mobile)	23% with $D < 4$ (lamella) 71% with $D < 4$ (nucleus)	60
biotin-PE	Fibroblasts	100 nm FM avidin	8	—	Unspecified fraction stationary and not extractable by detergent	46
Fi-PE	Neurons	500 nm latex Ab-FI	24 ± 6.8	—	Analyzed as 1d diffusion along axon length	22
<i>Glycolipid</i> GM-1	Fibroblasts	40 nm Au cholera toxin B	7.1 ± 1.3	—	18% slow diffusion with $D \sim 1$ 38% corralled diffusion	84
<i>GPI linked proteins</i>						
Thy-1	Fibroblasts	100 nm FM Ab	6.1 (corralled)	$\sim 30-40$ (~50% mobile)	39% slow diffusion $D(\text{slow}) = 0.057$	46 50
Thy-1	Fibroblasts	40 nm Au Ab	7.2 ± 1.0	—	31% slow diffusion $D(\text{slow}) \sim 0.2$ 38% corralled	84
NCAM 125	Myoblasts	30 nm Au Ab	0.89 ± 0.18	3.7 ± 0.4 $\sim 70\%$ mobile	33% slow diffusion $D(\text{slow}) \sim 0.04$ 28% hybrid	^b
MHC I (Qa2)	HEPA-OVA cells	40 nm Au Ab	2.1 ± 0.3	2-4		33

^aSee footnotes a and b of Table 1. NCAM, neural cell adhesion molecule; MHC, major histocompatibility complex.

^bR Simson, SE Moore, P Doherty, FS Walsh & KA Jacobson, submitted.

Footnotes to table 1:

^aAb, antibody; Chol, cholesterol; FI, fluorescein; FM, fluorescent microsphere; GPI, glycosylphosphatidylinositol; MV, multivalent; PC, phosphatidylcholine; PE, phosphatidylethanolamine; POPC, palmitoyloleoyl PC; POPE, palmitoyloleoyl PE; PV, paucivalent; St, streptavidin; TMR, tetramethylrhodamine.

^bAll diffusion coefficients D in units $10^{-10} \text{ cm}^2 \text{ s}^{-1}$.