Online Supplementary Material

Supplementary Movie 1: Scanning behavior of CD4+ T cells in the subarachnoid space of naïve mice.

Supplementary Movie 2: CD4+ T cells interact with MHC class II+ APCs in the

subarachnoid space in the early phases of EAE.

Supplementary Movie 3: Behavior of MHC class II positive APCs in the

subarachnoid space in the early phases of EAE.

Supplementary Movie 4: Migratory behavior of CD4+ T cells in the subarachnoid

space during different stages of EAE.

Supplementary Movies

Leptomeningeal explants were prepared from naïve mice or mice immunized with MOG35-55 and harvested on day 10-11 pi (before onset of signs), day 14-15 pi (peak of EAE) or day 17-18 pi (after peak of clinical EAE). Samples were stained with anti-CD4 (green) and -MHC class II (red) and imaged using time-lapse confocal laser-scanning microscopy. In some movies, colors were changed (from red or green to white or blue) during processing to enhance contrast and clarity.

Kivisäkk et al.	, CD4–APC interactions in the subarachnoid s	pace
-----------------	--	------

Total imaging times and scanning intervals are described in each movie.

32

Sequences of z-stacks were transformed into three-dimensional movies and

analyzed using LSM 3D analysis software.