Supplementary Materials

Movie S1. Time-lapse images of LC behaviors after topical application of vehicle alone.
Dynamic behaviors of EGFP+ LCs were recorded every 2 minutes in anesthetized I-Aβ-EGFP mice 30 hours after topical application of vehicle alone. The same dataset shown in Fig. 1a was compiled to produce this video.

Movie S2. Time-lapse images of LC behaviors after topical application of DNFB. Dynamic behaviors of EGFP+ LCs were recorded every 2 minutes in anesthetized I-Aβ-EGFP mice 30 hours after topical application of 0.5% DNFB. The same dataset shown in Fig. 1a was compiled to produce this video.

Movie S3. Time-lapse images of LC behavioral responses to locally injected PBS alone.
Dynamic behaviors of EGFP+ LCs were recorded every 2 minutes in anesthetized I-Aβ-EGFP mice 6-8 hours after s.c. injection of PBS alone.

Movie S4. Time-lapse images of LC behavioral responses to locally injected IL-1α.
Dynamic behaviors of EGFP+ LCs were recorded every 2 minutes in anesthetized I-Aβ-EGFP mice 6-8 hours after s.c. injection of IL-1α (50 ng/animal).

Movie S5. Time-lapse images of LC behavioral responses to locally injected TNFα.
Dynamic behaviors of EGFP+ LCs were recorded every 2 minutes in anesthetized I-Aβ-EGFP mice 6-8 hours after s.c. injection of TNFα (50 ng/animal).
Movie S6. Time-lapse images of LC behavioral responses to locally injected IL-1α plus TNFα. Dynamic behaviors of EGFP+ LCs were recorded every 2 minutes in anesthetized I-Aβ-EGFP mice 6-8 hours after s.c. injection of a combination of IL-1α (50 ng/animal) and TNFα (50 ng/animal).