

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-A β -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-A β -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-A β -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-1 α .

Dynamic behaviors of EGFP⁺ LCs were recorded every 2 minutes in anesthetized I-A β -EGFP mice 6-8 hours after s.c. injection of IL-1 α (50 ng/animal).

Movie S5. Time-lapse images of LC behavioral responses to locally injected TNF α .

Dynamic behaviors of EGFP⁺ LCs were recorded every 2 minutes in anesthetized I-A β -EGFP mice 6-8 hours after s.c. injection of TNF α (50 ng/animal).

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