Supplementary information

Corresponding to:

Spatiotemporal heterogeneity of κ-carrageenan gels investigated via single-particle-tracking fluorescence microscopy

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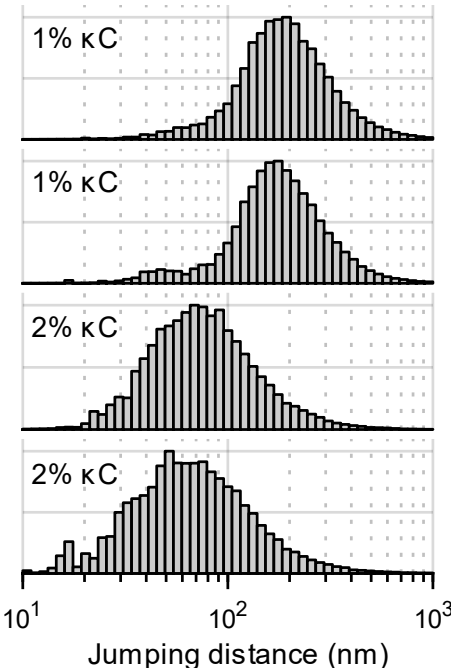

Figure S. 1: Histogram of jumping distances, weighted on track length, of probes in 1 – 2% (w/w) κ-carrageenan polymer solutions (two repetitions of each sample) without any salt addition.

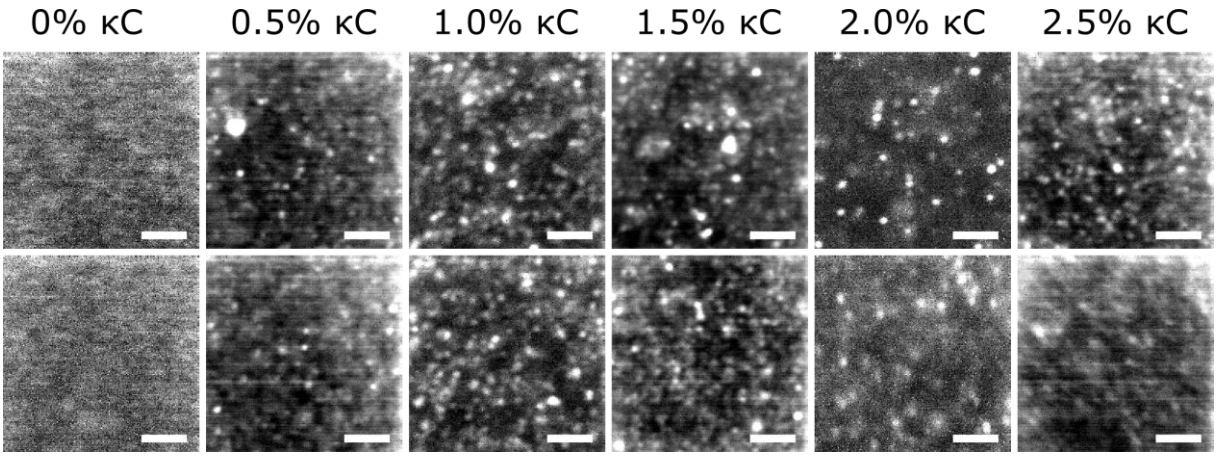

Figure S. 2: Probe infusion investigated with rescan confocal microscopy. The median value of a 50-frame window is shown, and the intensity for every individual image is rescaled to remove the highest and lowest 1% intensity values. The observed horizonal patterns represent the fast scanning direction of the RCM. Rows are repetitions of the same sample. For the 0% κ-carrageenan sample, 25% glycerol is used to decrease the diffusion coefficient of the nanosphere without introducing spatial heterogeneity. Scalebars represent 2.5 μm.

Movie S. 1: Rescan confocal microscopy operating at 1 Hz of 2% κ-Carrageenan infused with 0.03% (w/v) fluorescent nanoprobes. Images shown in Figure 4B are extracted from this movie.

Movie S. 2: Rescan confocal microscopy operating at 1 Hz of 0.03% (w/v) fluorescent nanoprobes in milli-Q water.