



Fig. S2. Decreasing the Lor density on the AFM tip shows that single-molecules are probed.

Adhesion force and rupture length histograms obtained by recording force curves in PBS across the surface of two AD08 cells using Lor-tips functionalized at very low density (16-mercaptopdodecahexanoic acid at 1% instead of 10%). The adhesion frequency is dramatically decreased, without showing intermediate forces.