

SUPPLEMENTAL DATA

Suppl. Video 1

Induction of slow L-selectin mediated rolling by DREG-55 mAb.

Jurkat cells show L-selectin mediated rolling at steady state on immobilized PSGL-1 in a parallel plate flow chamber at 1.5 dyn/cm^2 . $10 \text{ }\mu\text{g/ml}$ anti-L-selectin antibody DREG-55 was added to the flow buffer without interruption of the flow. Magnification $10\times$. Detailed analysis of the rolling velocity is shown in figures 1 and 2 and in suppl. video 2.

Suppl. Video 2

L-selectin-mediated rolling in high temporal resolution

Untreated (top) and 10 $\mu\text{g/ml}$ DREG-55 mAb treated (bottom) Jurkat cells rolling on 6 $\mu\text{g/ml}$ immobilized PSGL-1 at 0.96 dyn/cm^2 . Time-lapse video with a total duration of 1000 ms recorded at 100 fps and at $40\times$ magnification. Scale bar shows 20 μm . Automatic cell tracking was performed as indicated in materials and methods and the velocity analysis is shown in figure 2.