Supplementary Information—Videos

Cytoskeleton Dependent Mobility Dynamics of FcγRIIA Facilitates Platelet Haptotaxis and Capture of Opsonized Bacteria

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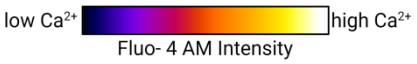
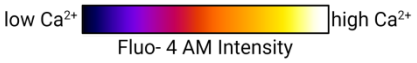
Video S1. Control platelet adhesion and haptotaxis on Agg.IgG micropatterns (inter pattern pitch 1μm) showing filopodial and lamellipodial extensions. Platelets are loaded with calcium indicator dye Fluo-4 AM to show changes in calcium release during adhesion and spreading. Playback at 5 fps.



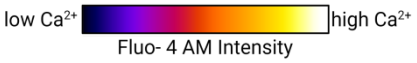
Look-up-table for intracellular Fluo-4 AM intensity

Video S2. Carier Control (DMSO 0.05%) showing platelet adhesion and haptotaxis on Agg.IgG micropatterns (inter pattern pitch 1μm) showing filopodial and lamellipodial extensions. Platelets are loaded with calcium indicator dye Fluo-4 AM to show changes in calcium release during adhesion and spreading. Playback at 5 fps.



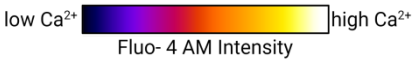
Look-up-table for intracellular Fluo-4 AM intensity

Video S3. Cytochalasin D (25 μM) treated platelets fail to adhere firmly and do not spread on Agg.IgG micropatterns (inter pattern pitch 1μm). Platelets are loaded with calcium indicator dye Fluo-4 AM and do not show significant changes in calcium release during adhesion and spreading compared to control and DMSO-treated platelets. Playback at 5 fps.



Look-up-table for intracellular Fluo-4 AM intensity

Video S4. Blebbistatin (10 μM) treated platelets adhere weakly and do not spread on Agg.IgG micropatterns (inter pattern pitch 1μm). Platelets are loaded with calcium indicator dye Fluo-4 AM and do not show significant changes in calcium release during adhesion and spreading compared to control and DMSO-treated platelets. Playback at 5 fps.



Look-up-table for intracellular Fluo-4 AM intensity

Video S5, S6, and S7. Tracking dynamics of FcγRIIA via QD-Fab on platelet filopodia, lamellipodia, and body (corresponding to Image 5B). Legends-magenta circles indicate the localization of individual QD luminescence, and yellow lines represent their computed tracks. Image interval of 78 ms, and playback is at 5 fps.