Electronic Supplementary Material (ESI) for Analyst.

Rapid Quantification of Prion Proteins using Resistive Pulse Sensing

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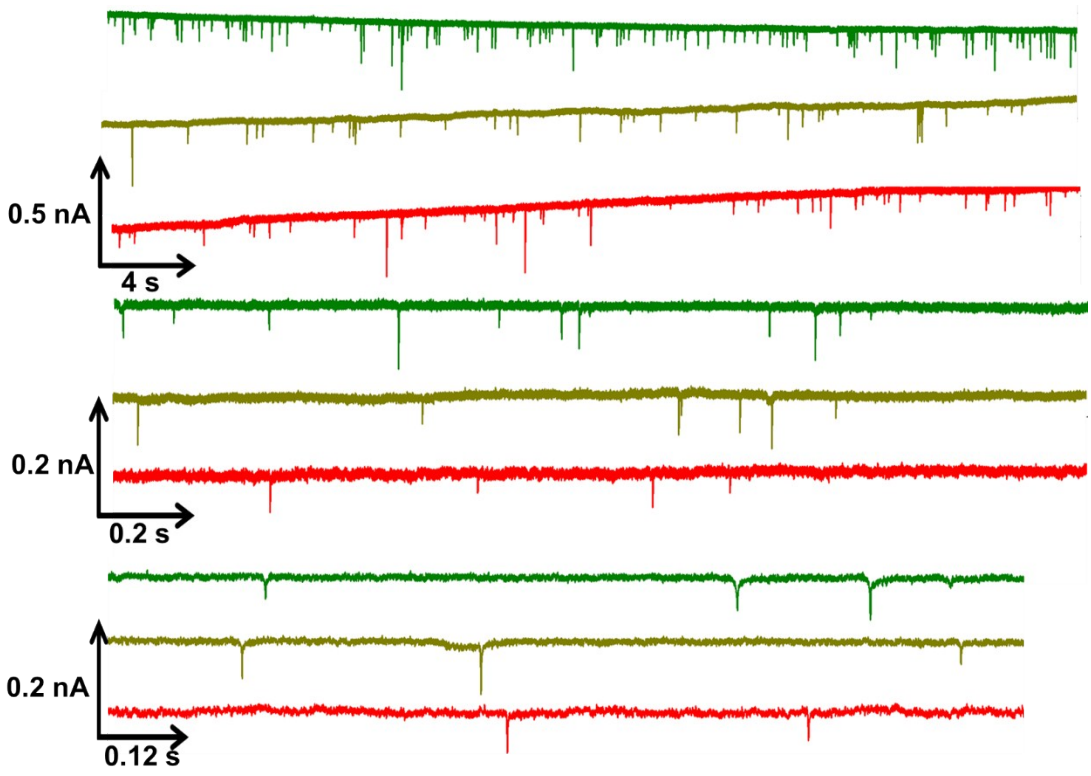

Figure s1. Example data sets for DNA blank s-beads (green), s-beads incubated with 50 nM PrP^c (olive) and 100 nM PrP^c (red).

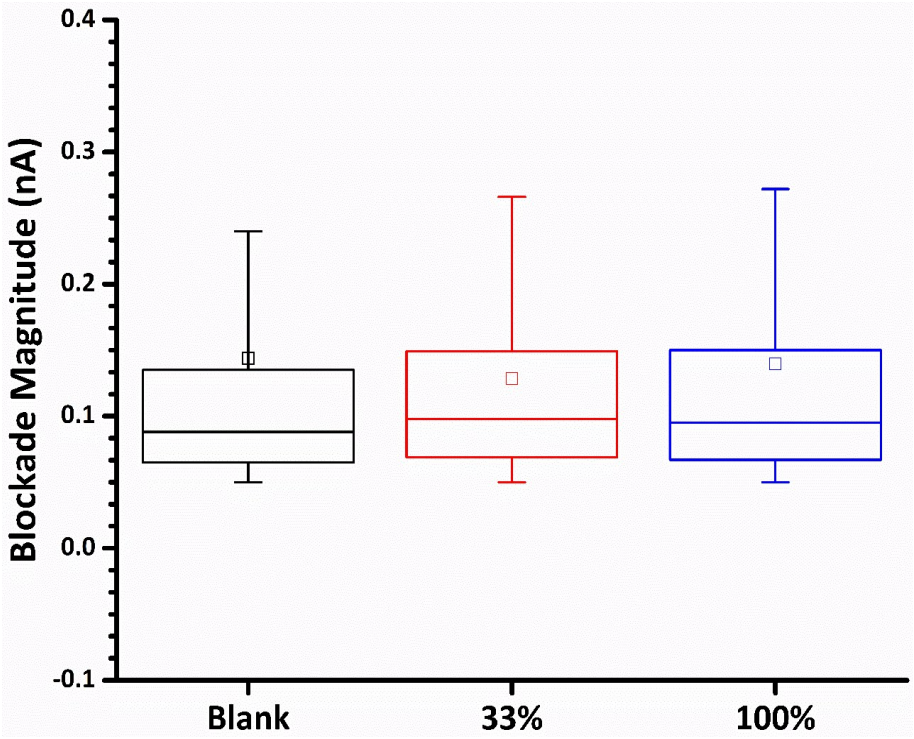

Figure s2. Box plot of blockage magnitude of SPBs with concentration of DNA aptamer equivalent to the 33%, 100% and without DNA aptamer shown in figure 2. Experiments were conducted in 1x PBS at 0.4 V and 48.9 mm stretch. n = 3 and events for each data set >500

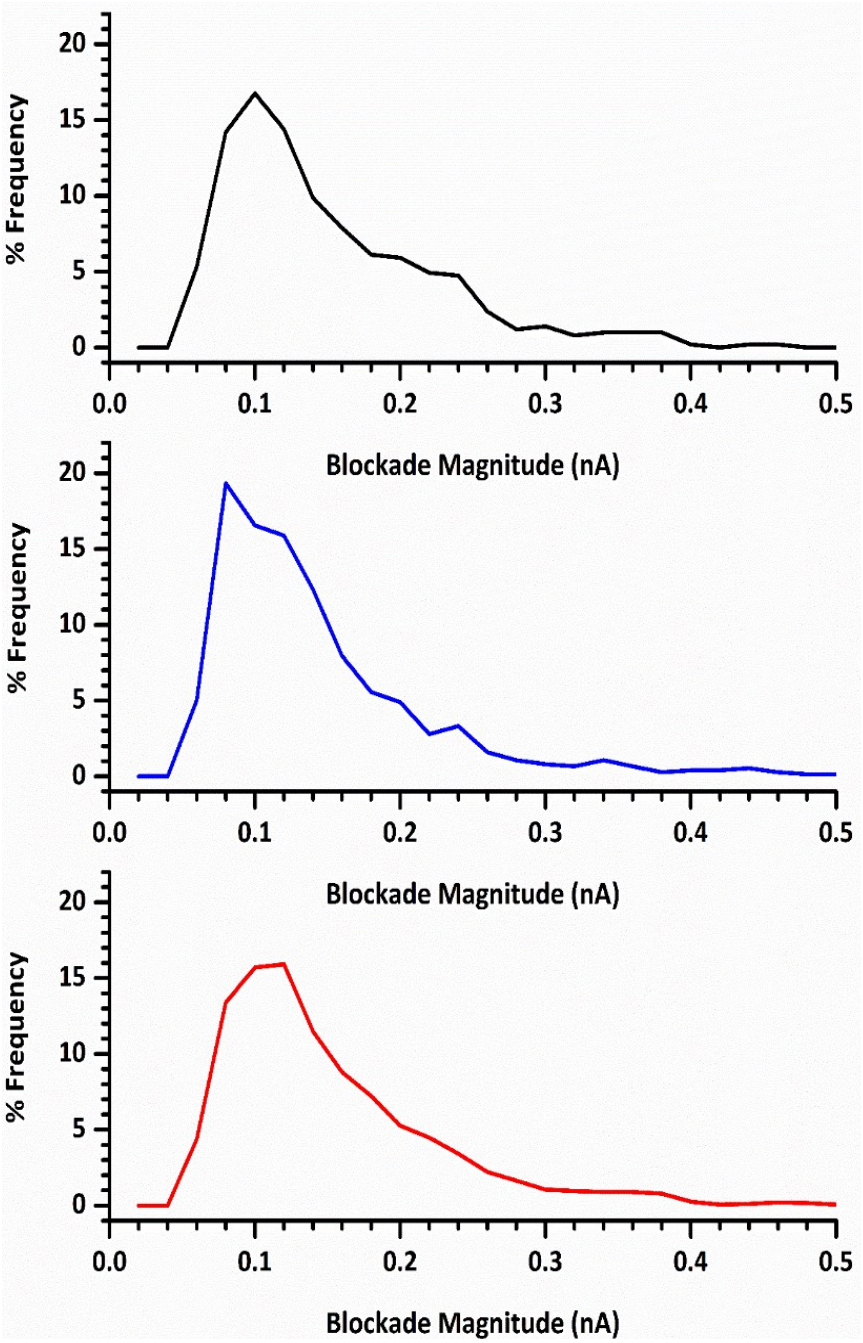

Figure s3. Blockade magnitude distributions particles shown in figure 2b Black: 0 nM; Blue: at 50 nM and; Red: 100 nM. Events for each data set >500

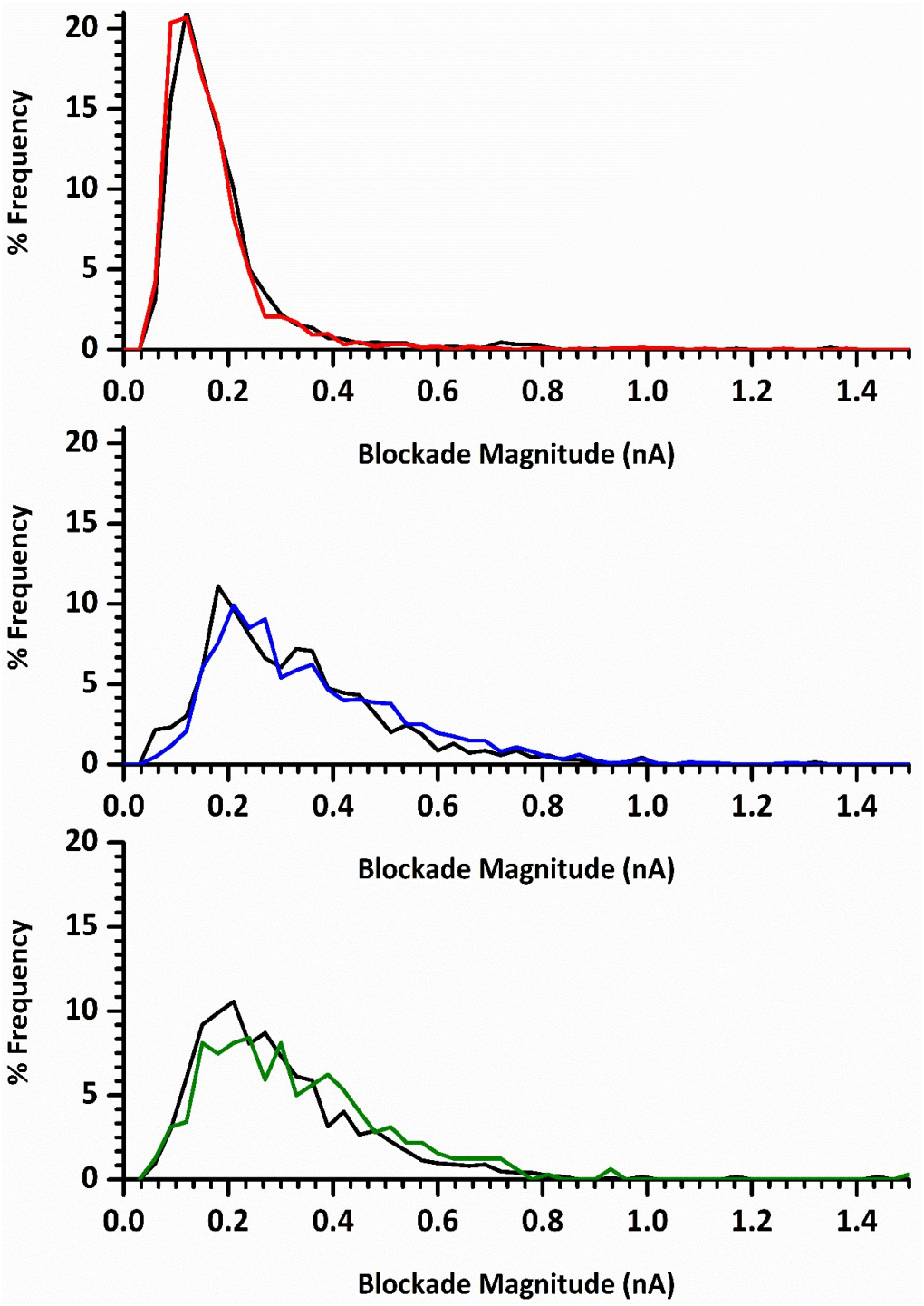

Figure s4 Blockade magnitude distributions for the incubation of S-beads with three abundant blood proteins at 200 nM with a constant concentration of SPPs at 2 x 10^9 mL^{-1}- Red: albumin; Blue: fibrinogen; Green: IgG. n=3; events for each dataset >500.