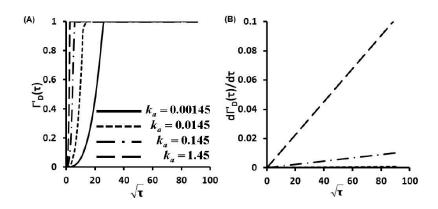


Supplementary Information

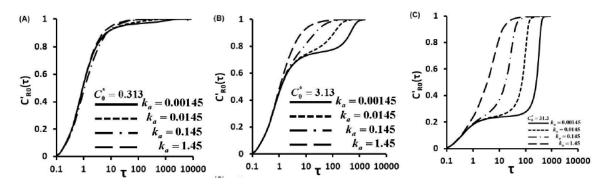
## Protein Adsorption in Microengraving Immunoassays. *Sensors* 2015, *15*, 26236-26250

## Qing Song

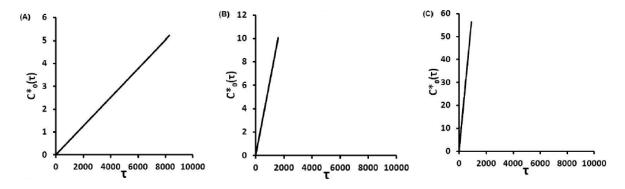
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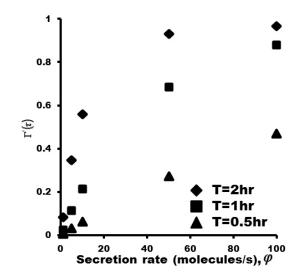
**Figure S1.** Diffusion controlled limits. (A) Concentration of protein captured on glass slide surface as a function of time  $\Gamma'(\tau)$ ; (B) Protein adsorption rates as a function of time  $d\Gamma'/d\tau$ .



**Figure S2.** Concentration of protein at sublayer of the glass slide surface as a function of time  $_{C_{k_0}}(\tau)$  at different  $_{C_0}^* = 0.313$  (**A**),  $C_0^* = 3.13$  (**B**), and  $C_0^* = 31.3$  (**C**).



**Figure S3.** Concentration of protein at surface of the single cell as a function of time  $C_{R_0}(\tau)$  at different  $C_0^* = 0.313$  (**A**),  $C_0^* = 3.13$  (**B**), and  $C_0^* = 31.3$  (**C**).



**Figure S4.** Adsorption isotherms ( $K_D = 8.7 \times 10^{-9}$  M) at different incubation time of 2 h, 1 h, and 0.5 h in the range of 1–100 molecules/s.

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