

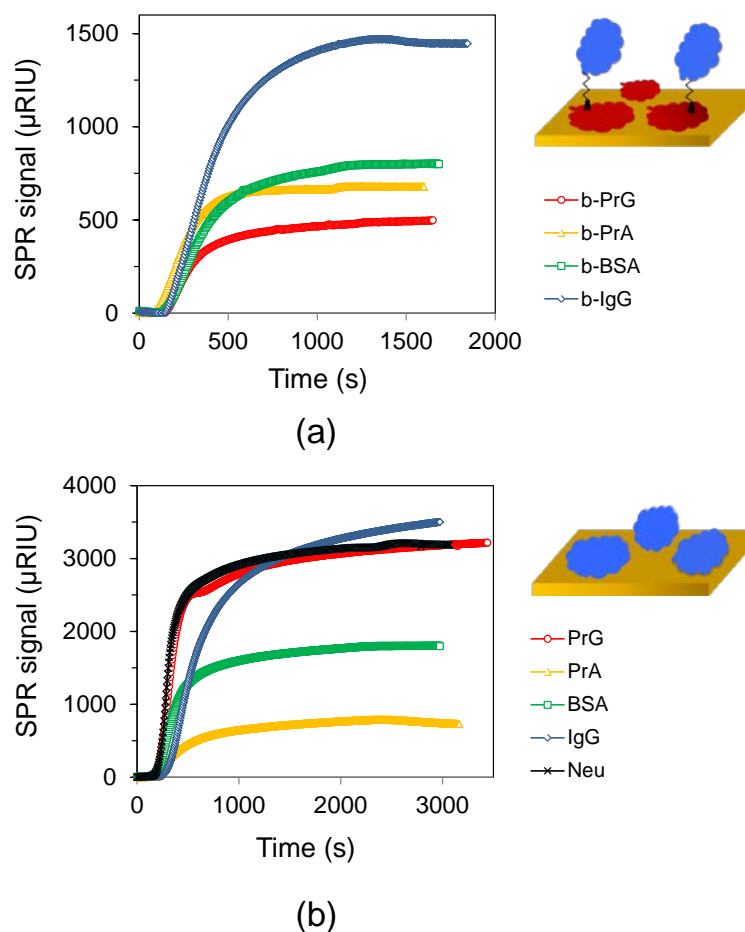
## Electronic Supplementary Information

### Electronic Supplementary Information

#### Quantitative determination of protein molecular weight with an acoustic sensor; significance of specific versus non-specific binding

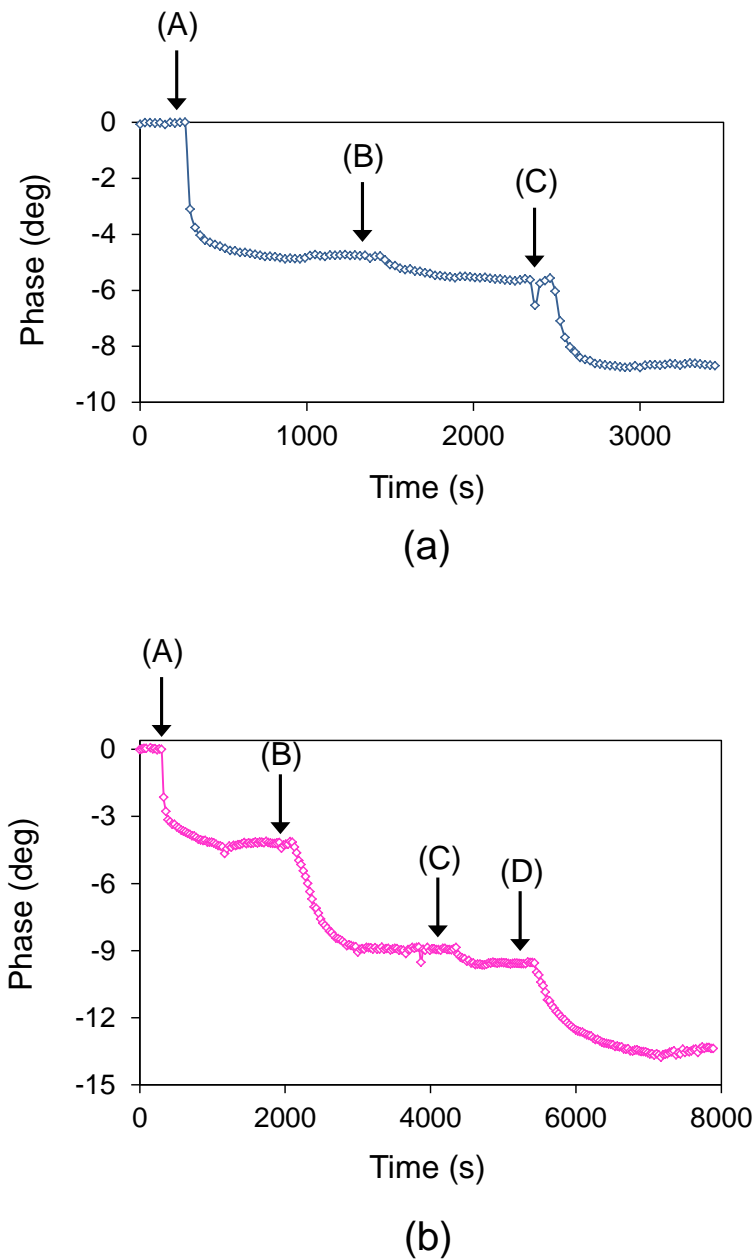
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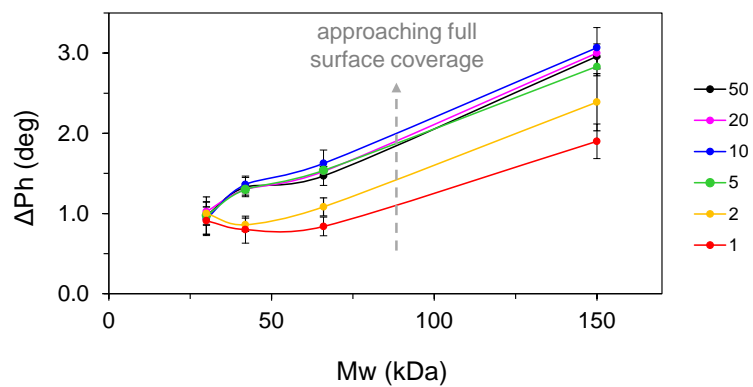
**Figure S-1:** Real-time SPR signal for (a) biotinylated molecules specifically binding on a (preformed) neutravidin (red) layer; (b) non-biotinylated molecules directly adsorbing on gold. (This figure is supporting Fig.2(a) and (b)).

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**Figure S-2:** Real-time phase response during (a) the sequential injection of (A) neutravidin; (B) BSA; (C) b-IgG; similar trend is true for the other biotinylated molecules. In (b) the sequential injections are: (A) PrG; (B) antibody (anti-PAPP-A in this case); (C) BSA; (D) PAPP-A. Similar trend is true for the other cardiac markers. (*This figure is supporting Fig.2(a) and (c)*).

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**Figure S-3:** Phase change vs. molecular weight as concentration (in  $\mu g/ml$ ) increases for the specific binding of biotinylated molecules to neutravidin. (*This figure is supporting Fig.6*).