Supporting information for MAP kinases differentially bind and phosphorylate NOS3 via two unique NOS3 sites

Supplemental Figure 1:

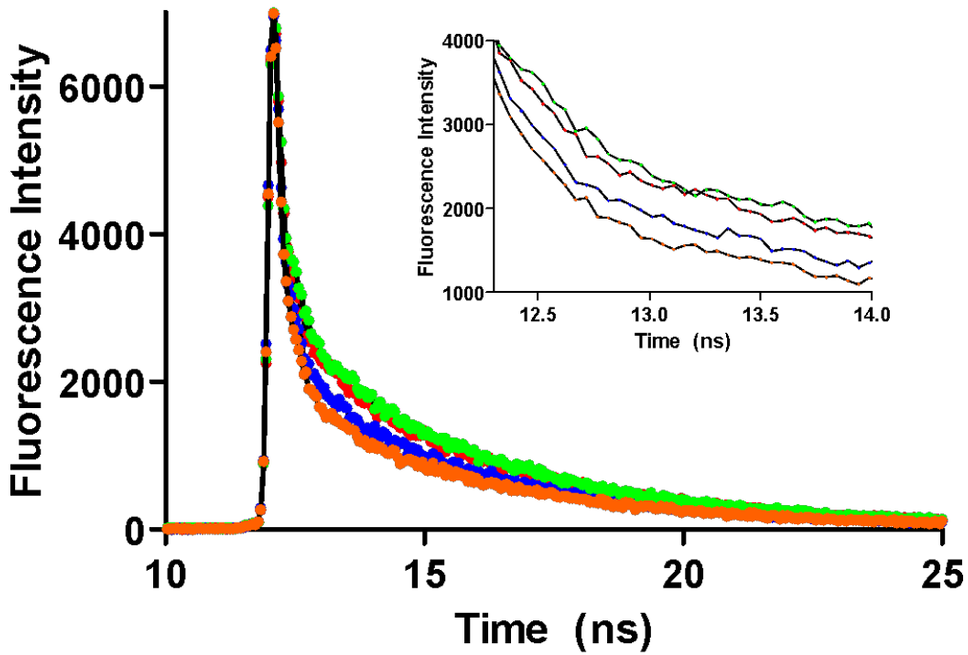

Figure S1. **Phosphorylation of NOS3 by JNK1$_{\alpha1}$ evinces no significant change in conformation.** Fluorescence decays of NOS3 holoenzyme FMN excited at 473 nm and detected at 525 nm. Blue is NOS3, green is CaM-bound NOS3, orange is JNK1$_{\alpha1}$-phosphorylated NOS3 and red is JNK1$_{\alpha1}$-phosphorylated, CaM-bound NOS3.

Supplemental Table 1: Global Association-then-dissociation model parameters and measures of goodness-of-fit

	Fig. 2	Fig. 4					
		A	B	C	D	E	F
Best-fit values							
k_{on} (M-1s-1)	4106	6605	12135	17333	15864	14133	84646
k_{off} (s-1)	0.00006188	0.006226	0.002066	0.0005339	0.0009677	0.0005429	0.0002496
K_D (nM)	15	940	170	31	61	38	3
95% Confidence Interval							
k_{on}	4046 to 4165	5914 to 7315	11712 to 12566	16814 to 17864	15210 to 16534	13346 to 14949	83304 to 86002
k_{off}	5.745e-005 to 6.631e-005	0.006059 to 0.006398	0.002021 to 0.002112	0.0005230 to 0.0005449	0.0009290 to 0.001007	0.0005242 to 0.0005620	0.0002362 to 0.0002631
Goodness of Fit							
Degrees of Freedom	4498	4498	2246	4498	2248	3748	2248
R squared	0.9987	0.9758	0.9948	0.9883	0.9937	0.9567	0.995
Sum of Squares	4.69	1.488	2.871	5.203	7.294	1.296	11.76
Sy.x	0.03229	0.01819	0.03575	0.03401	0.05696	0.0186	0.07233

Sy.x = standard deviation of the residuals (Y), in nm shift