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Supporting Information
for

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**A pro-inflammatory signalome is constitutively activated by C33Y mutant TNF
receptor 1 in TNF receptor-associated periodic syndrome (TRAPS)**

Table 2: Statistical analysis of RPPA data from figure 3

	p value for significance comparisons							
Target	Effect of time	effect: WT vs Mutation	TNF alpha incubation period (minutes)					
			0	10	20	30	40	50
phospho-HSP27 (Fig 3C)	< 0.0001	< 0.0001	P < 0.0001	P < 0.0001	P < 0.0001	P < 0.0001	P < 0.0001	P < 0.0001
TRAF2 (Fig 3D)	0.1513 (ns)	0.0102	P < 0.01	P < 0.05	P > 0.05 (ns)	P > 0.05 (ns)	P > 0.05 (ns)	P > 0.05 (ns)
			Chase period after TNF alpha pulse (minutes)					
	Effect of chase time	Effect: WT vs Mutation	0	20	40	60	80	100
phospho-AKT-ser (Fig 3E)	0.0003	< 0.0001	P < 0.01	P < 0.0001	P < 0.0001	P < 0.0001	P < 0.0001	P < 0.0001
phospho-C-RAF (fig3F)	< 0.0001	< 0.0001	P < 0.0001	P < 0.0001	P < 0.0001	P < 0.0001	P > 0.05 (ns)	P > 0.05 (ns)
phospho-GSK-3 β (Fig 3G)	< 0.0001	< 0.0001	P < 0.0001	P < 0.0001	P < 0.0001	P < 0.0001	P < 0.05	P < 0.05
phospho-HSP27 (Fig 3H)	< 0.0001	< 0.0001	P < 0.0001	P < 0.0001	P < 0.0001	P < 0.0001	P < 0.0001	P < 0.0001
			TNF alpha concentration (ng/ml)					
	Effect of TNF alpha	Effect: WT vs Mutation	0	10	20	30	40	50
phospho-PTEN (Fig 3I)	0.0012	< 0.0001	P < 0.01	P < 0.05	P > 0.05 (ns)	P > 0.05 (ns)	P < 0.01	P < 0.001
STAT3 (Fig 3J)	0.0376 (ns)	< 0.0001	P < 0.01	P < 0.0001	P < 0.001	P < 0.0001	P < 0.0001	P < 0.0001
phospho-STAT3 (Fig 3K)	0.0502 (ns)	< 0.0001	P < 0.0001	P < 0.0001	P < 0.0001	P < 0.0001	P < 0.0001	P < 0.0001
phospho-HSP27 (Fig 3L)	< 0.0001	< 0.0001	P < 0.0001	P < 0.0001	P < 0.0001	P < 0.0001	P < 0.0001	P < 0.0001
PI3K P110 (Fig 3M)	0.8802 (ns)	< 0.0001	P < 0.0001	P < 0.0001	P < 0.0001	P < 0.0001	P < 0.0001	P < 0.0001
c-FLIP (Fig 3N)	< 0.0001	< 0.0001	P < 0.0001	P < 0.0001	P < 0.05	P < 0.0001	P < 0.0001	P < 0.0001

Table 3: Statistical analysis of RPPA data from figure 4

	p value for significance comparisons							
Target	Effect over time	effect of wt vs Mutation	TNF alpha incubation period (minutes)					
			0	10	20	30	40	50
NFkB P65 (Fig 4G)	0.0069	< 0.0001	P < 0.01	P < 0.01	P > 0.05 (ns)	P > 0.05 (ns)	P > 0.05 (ns)	P > 0.05 (ns)
IkB alpha (Fig 4H)	0.0162	< 0.0001	P < 0.01	P < 0.001	P < 0.001	P < 0.01	P < 0.05	P < 0.0001
phospho-P65 (Fig 4I)	0.2514 (ns)	< 0.0001	P > 0.05 (ns)	P > 0.05 (ns)	P < 0.01	P < 0.05	P > 0.05 (ns)	P > 0.05 (ns)
p-C-Jun (Fig 4J)	0.3225 (ns)	< 0.0001	P > 0.05 (ns)	P < 0.001	P < 0.05	P > 0.05 (ns)	P > 0.05 (ns)	P < 0.01
NFkB P50 (Fig 4K)	< 0.0001	< 0.0001	P > 0.05 (ns)	P < 0.0001	P < 0.01	P > 0.05 (ns)	P > 0.05 (ns)	P < 0.01
phospho-ELK (Fig 4 L)	0.409 (ns)	< 0.0001	P < 0.001	P < 0.0001	P < 0.0001	P < 0.0001	P < 0.05	P < 0.001
IKK alpha (Fig 4M)	0.1639 (ns)	< 0.0001	P < 0.0001	P < 0.0001	P < 0.001	P < 0.05	P > 0.05 (ns)	P < 0.0001
phospho-ATF (Fig 4N)	0.2430 (ns)	< 0.0001	P > 0.05 (ns)	P < 0.01	P < 0.0001	P < 0.05	P > 0.05 (ns)	P < 0.05
IKK beta (Fig 4O)	0.8416 (ns)	< 0.0001	P < 0.01	P < 0.05	P < 0.001	P > 0.05 (ns)	P > 0.05 (ns)	P < 0.01
phospho-IkB alpha (Fig 4P)	0.0012	< 0.0001	P < 0.01	P < 0.001	P < 0.05	P < 0.05	P < 0.01	P < 0.0001