Supplemental Information

A dual phosphorylation switch controls 14-3-3-dependent cell surface expression of TASK-1

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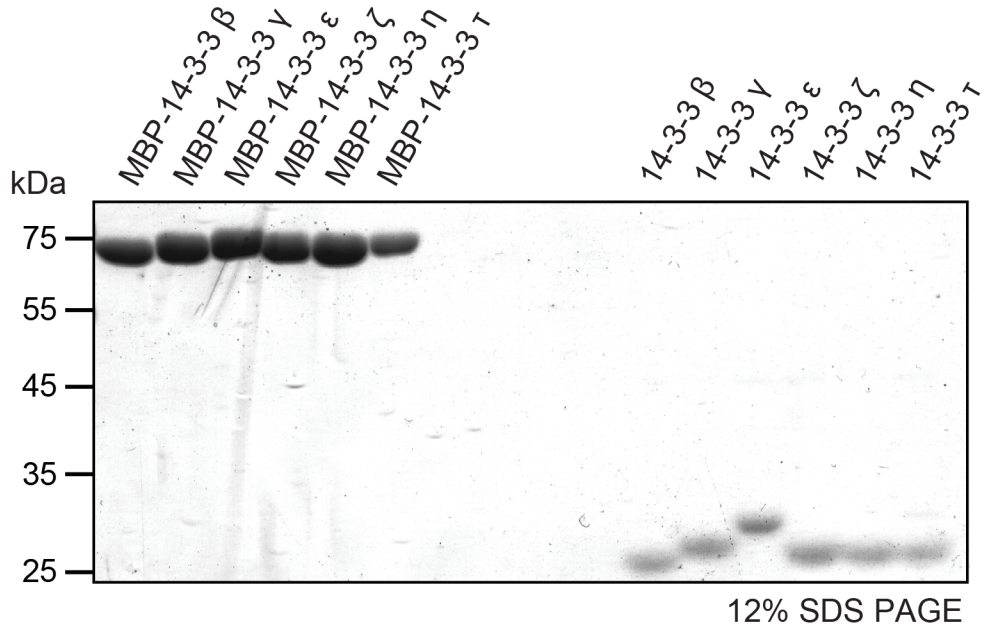

Fig. S1. Coomassie-stained gel of six human 14-3-3 isoforms purified as MBP fusion proteins before (left) and after cleavage of the MBP tag and further purification by size exclusion chromatography (right). 2.5 μg protein was loaded per lane.

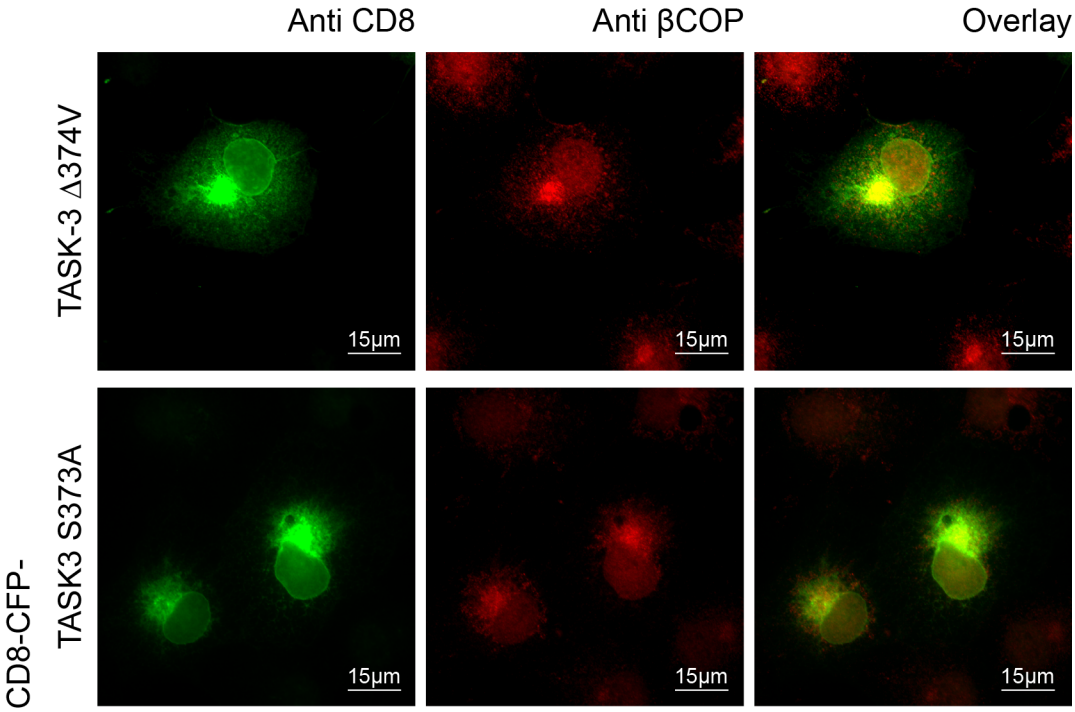

Fig. S2. Subcellular localization of CD8-CFP-TASK-3 ΔV374 is indistinguishable from CD8-CFP-TASK-3 S373A. Constructs were transfected in three independent experiments and ca. 100 cells per transfection were analyzed by indirect immunostaining against the indicated antigens.

Table S1. Binding affinities of 14-3-3 proteins to TASK-1 C-terminal peptides determined by FP. Equilibrium dissociation constants (K_D) are displayed in [nM]. Error is s.e.m.

	FP		
	K_D [μM]		
14-3-3 isoform	**TASK-1 pS393**	**TASK-1 pS392**	**TASK-1 pS392pS393**
β	7.5 ± 0.1	33.1 ± 0.7	92.2 ± 2.9
γ	9.8 ± 0.6	51.4 ± 2.7	190.4 ± 19.0
ε	29.0 ± 1.0	373.6 ± 33.2	861.4 ± 23.0
ζ	23.0 ± 1.4	133.0 ± 1.8	264.4 ± 8.9
η	9.2 ± 0.1	81.5 ± 7.8	525.4 ± 120.0
τ	49.4 ± 2.0	123.2 ± 9.0	662.9 ± 86.3
σ	36.0 ± 2.9	58.8 ± 5.3	106.2 ± 10.4

Table S2. Antibodies used in this study.

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Table S3. Plasmids used in this study.

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Table S4. Primers used in this study.

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