

Table S1. Subcellular localization of Smo C-to-A mutants

	Vesicular	ER	Plasma membrane
Myc-Smo	86.6 ±1.3%	10.93±1.43%	2.5±1.7%
Myc-Smo + Hh	7.8±1.7%	11.55±1.34%	80.41±2.30%
Myc-SmoC320A	0	100%	0
Myc-SmoC320A + Hh	0	100%	0
Myc-SmoC339A	0	100%	0
Myc-SmoC339A + Hh	0	100%	0
Myc-SmoC413A	0	100%	0
Myc-SmoC413A + Hh	0	100%	0

Seven fields of cells over two individual experiments were examined for Smo colocalization with the Cal-GFP-KDEL marker. The percentage of cells demonstrating vesicular, plasma membrane or ER localization is indicated. Error is shown as s.e.m.