

Table S1. Spindle severing experiments

Genotype	<i>n</i>	Anterior ($\mu\text{m}/\text{second}$)	Posterior ($\mu\text{m}/\text{second}$)	Student's <i>t</i> -test versus <i>gpb-1(RNAi)</i>	
				(Anterior)	(Posterior)
Wild type	13	0.64±0.07* [†]	1.03±0.08* [†]	<i>P</i> <0.02	<i>P</i> <0.2
<i>goa-1/gpa16(RNAi)</i>	15	0.21±0.04 [‡]	0.22±0.03 [‡]	<i>P</i> <0.001 [‡]	<i>P</i> <0.0011 [‡]
<i>goa-1(sa734)</i>	12	0.60±0.08*	0.73±0.09*	<i>P</i> <0.001	<i>P</i> <0.02
<i>goa-1(RNAi)</i>	8	0.50±0.09	0.80±0.12	<i>P</i> <0.001	<i>P</i> <0.05
<i>gpa-16(it143)</i>	10	0.58±0.07	0.65±0.09	<i>P</i> <0.001	<i>P</i> <0.02
<i>gpa-16(RNAi)</i>	15	0.6±0.07*	0.65±0.07*	<i>P</i> <0.001	<i>P</i> <0.001
<i>gpb-1(RNAi)</i>	11	0.96±0.08*	0.97±0.23* [§]	–	–
<i>goa-1(sa734) gpb-1(RNAi)</i>	11	0.95±0.087	0.94±0.11 [§]	<i>P</i> >0.2	<i>P</i> >0.2
<i>goa-1(RNAi) gpb-1(RNAi)</i>	10	0.94±0.07	0.90±0.1 [§]	<i>P</i> >0.2	<i>P</i> >0.2
<i>gpa-16(it143) gpb-1(RNAi)</i>	10	1.01±0.18	1.1±0.12 [§]	<i>P</i> >0.2	<i>P</i> >0.2
<i>gpa-16(RNAi) gpb-1(RNAi)</i>	11	0.95±0.13	0.9±0.13 [§]	<i>P</i> >0.2	<i>P</i> >0.2
<i>goa-1(sa732) gpa-16(RNAi) gpb-1(RNAi)</i>	9	0.18±0.04	0.22±0.07	<i>P</i> <0.001	<i>P</i> <0.001

Average peak velocities±s.d. were estimated as described in the Materials and methods for the anterior and posterior spindle poles.

*Afshar et al., 2004.

[†]The spindle of wild-type embryos (*n*=9) were severed in this series of experiments, and the values obtained were statistically indistinguishable from those reported in Afshar et al. (*P*>0.2).

[‡]Colombo et al., 2003.

[§]The extent of the net pulling forces on the posterior spindle pole are probably underestimated as the mitotic spindle sets up more toward the posterior (see Movies 1-7); as a result, peak velocities on the posterior spindle pole probably cannot be fully developed.