



Fig. S1. Number of ABLKs at different ages. Histogram showing the number of ABLKs per hemiganglion found in larvae, pupae and adults at different ages (supplementary material Table S1).

Table S1. Expression of Lk in different genotypes

Genotype	n	Number of ABLKs		Figure number
		Mean	s.e.m.	
Wild-type LI	49	7	0	
Wild-type LIII	40	6.76	0.08	1B'
Wild-type early pupae	8	7	0	
Wild-type late pupae	10	8.12	0.22	
Wild-type adult 0 hours AE	18	8	0.16	
Wild-type adult 3 hours AE	14	8.14	0.17	
Wild-type adult 1 days AE	10	9	0.25	
Wild-type adult 2 days AE	14	9.42	0.27	
Wild-type adult 4 days AE	16	10.2	0.17	1C'
Wild-type adult 15 days AE	20	9.82	0.28	
Wild-type adult 30 days AE	10	10.12	0.29	
Wild-type adult 60 days AE	22	9.72	0.30	
<i>Ubx</i> ^{6,28}	39	6.03	0.03	4A
<i>abdA</i> ^{M1}	47	7	0	
<i>Ubx</i> ^{MX6} <i>abdA</i> ^{M1}	32	0.87	0.42	4B
<i>elav-Gal4>UAS-Ubx</i> ^{IAI}	15	9.8	0.11	4C
<i>elav-Gal4>UAS-abdA</i> ²⁰⁻¹⁰⁻¹	155	16.87	0.36	4D
<i>elav-Gal4>UAS-p35</i> ; LIII	10	10.65	0.67	4E
<i>elav-Gal4>UAS-p35 tub-Gal80^{ts}</i> ; (adult)	30	10.66	0.33	
<i>elav-Gal4>UAS-abdA</i> ²⁰⁻¹⁰⁻¹ <i>UAS-p35</i>	20	21.1	1.03	4F
<i>elav-Gal4>UAS-abdA</i> ²⁰⁻¹⁰⁻¹ <i>tub-Gal80^{ts}</i>	21	7.3	0.11	
<i>elav-Gal4>UAS-dsUbx Df(3R)Ubx</i> ^{109/+}	8	7	0	
<i>elav-Gal4>UAS-dsUbx Df(3R)Ubx</i> ^{109/+} (adult)	16	9.5	0.28	
<i>elav-Gal4>UAS-abdA-RNAi</i> ⁵¹⁹⁰⁰	8	7	0	
<i>elav-Gal4>UAS-abdA-RNAi</i> ⁵¹⁹⁰⁰ <i>UAS-dsUbx</i>	26	4.15	0.69	4G
<i>Df(3R)Ubx</i> ^{109/+} (adult)				
<i>Antp</i> ¹⁴ / <i>Antp</i> ²⁵	25	7	0	
<i>elav-Gal4>UAS-Antp</i>	20	6.95	0.12	
<i>AbdB</i> ^{M1}	42	7.98	0.02	5A
<i>AbdB</i> ^{M1/+} ; adult 4 days AE	28	11	0.17	
<i>elav-Gal4>UAS-AbdB</i> ^{m2SG19}	65	0.02	0.02	5B
<i>elav-Gal4>UAS-AbdB</i> ^{m2SG19} <i>UAS-p35</i>	12	0.1	0.04	
<i>elav-Gal4>UAS-abdA</i> ²⁰⁻¹⁰⁻¹ <i>AbdB</i> ^{M5}	15	13.29	0.98	5C
<i>elav-Gal4>UAS-AbdB-RNAi</i> ¹²⁰²⁴ <i>tub-Gal80^{ts}</i> ; LIII	15	7.57	0.13	5D
<i>elav-Gal4>UAS-AbdB-RNAi</i> ¹²⁰²⁴ <i>tub-Gal80^{ts}</i> (adult)	26	12.69	0.13	5E
<i>hth</i> ^{5E04} / <i>hth</i> ⁶¹⁵⁸	7	5.3	0.36	6B
<i>elav-Gal4>UAS-hth</i> (long form)	22	9.4	0.33	6C
<i>elav-Gal4>UAS-hth</i> (long form) <i>UAS-Ubx</i> ^{IAI}	4	12	1.1	
<i>Dfd</i> ¹⁰	13	7	0	
<i>Scr</i> ¹⁷	25	7	0	
<i>elav-Gal4>UAS-Dfd</i> ^{W4}	28	7	0	
<i>elav-Gal4>UAS-Scr</i> ^{EE2}	7	10.5	0.7	6E

AE, after eclosion; n, number of hemiganglia analyzed. The right column indicates the figure showing each result.