For antibodies that are not characterized before, we used western blot, immunoprecipitation analysis and RNAi for validation. The following slides summarizes information for each antibody and shows co-immunoprecipitation between condensin subunits. If an antibody immunoprecipitated the correct target as a single or the primary band on a western blot, and the signal is specific tested by immunoprecipitation, and/or knockdown by RNAi, and the ChIP-seq data is reproducible and correlates with ChIP-seq data from an independent antibody to the same target (if available), then the data from that antibody was used.
Figure 1: RNAi depletion of DPY-27 show reduction in DPY-27 signal using A) DPY-27 JL and B) SDQ3995 antibodies. C) DPY-27 SDQ3995 antibody immunoprecipitates DPY-27 and DPY-26.
Figure 2: **A)** RNAi depletion of CAPG-1 show reduction in SDQ3990 signal. **B)** SDQ3990 and **C)** CAPG-1 SDQ3967 immunoprecipitates CAPG-1.
Figure 3: A) RNAi depletion of DPY-28 shows reduction of one band in SDQ4564 signal. B) DPY-28 SDQ4564 immunoprecipitates DPY-28 band and not the second band that is in the input. C) DPY-28 SDQ4495 does not immunoprecipitate HCP-6. HCP-6 JL immunoprecipitates SMC-4 and MIX-1, but does not immunoprecipitate condensin I-I_{DC} subunit CAPG-1.
Figure 4: **A)** DPY-26 JL immunoprecipitates DPY-26. KLE-2 SDQ3942 does not immunoprecipitate condensin I-IDC subunit DPY-26. **B)** DPY-26 SDQ4496 immunoprecipitates specifically DPY-26. **C)** DPY-26 SDQ4561 immunoprecipitates DPY-26 but there is a non specific band for this particular antibody.
Figure 5: RNAi depletion of CAPG-2 shows reduction in A) SDQ4567 and B) SDQ4484 signal. C) SDQ4567 and D) SDQ4484 immunoprecipitate CAPG-2. CAPG-2 SDQ4567 shows a background band that is not there for SDQ4484.
Figure 5: RNAi depletion of KLE-2 shows reduction in A) SDQ3898 and B) SDQ3942 signal. C) SDQ3942 immunoprecipitate specifically KLE-2 D), and not DPY-26.
Figure 6: A) SMCOD0039 immunoprecipitates SMC-4. SMC-4 KH is previously characterized (see supplemental table 1). B) RNAi depletion of MIX-1 shows reduction in MIX-1 signal in SDQ4107. C) SMC-4 and MIX-1 co-immunoprecipitate.
Figure 7: A) RNAi depletion of PQN-85 shows reduction in PQN-85 signal in SDQ4481. B) SDQ4481 immunoprecipitates PQN-85.
qPCR primers:

GCCCGTCTATGTCGTCTCTTT  GCAGTCCTCCTCATCCTTTCA  dpy-23 promoter
CGTGCGTACAAGAGGAGACA  CTTTCCCCTGCCCAATTACC  rex-1
AGAAAATGCGCACAACACAG  TAATGTTTAGGCGGCAGGGA  rex-2
AGTTTGCAATCGGTGTGTGCG  GTCGAGCATTGTGAGGAAG  negative control