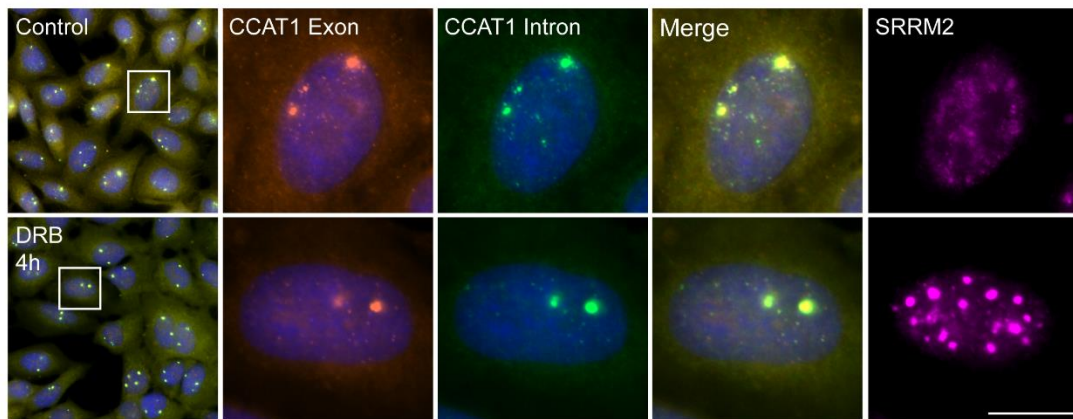


Supplementary figures

a



b

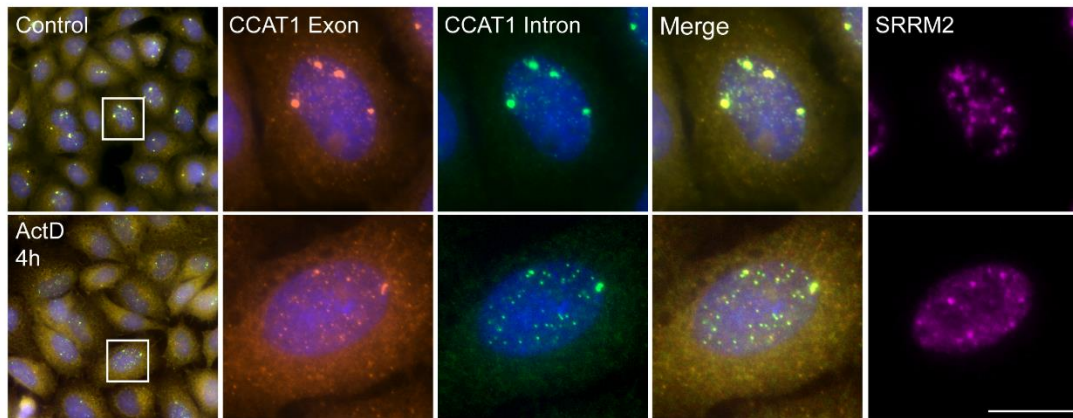


Fig. S1 *CCAT1* lncRNAs accumulate on the gene locus. RNA FISH to detect the *CCAT1* site of transcription using probes against the intron sequence. The transcription inhibitors **a** DRB or **b** ActD decreased *CCAT1* detection at the site of transcription, but small foci were still observed (4 hrs of treatment). *CCAT1* (exon; orange) and (intron; green) were detected together with anti-SRRM2 (magenta) which marks nuclear speckles. Hoechst DNA stain is in blue. Boxed areas are enlarged. Scale bars, 10 μ m.

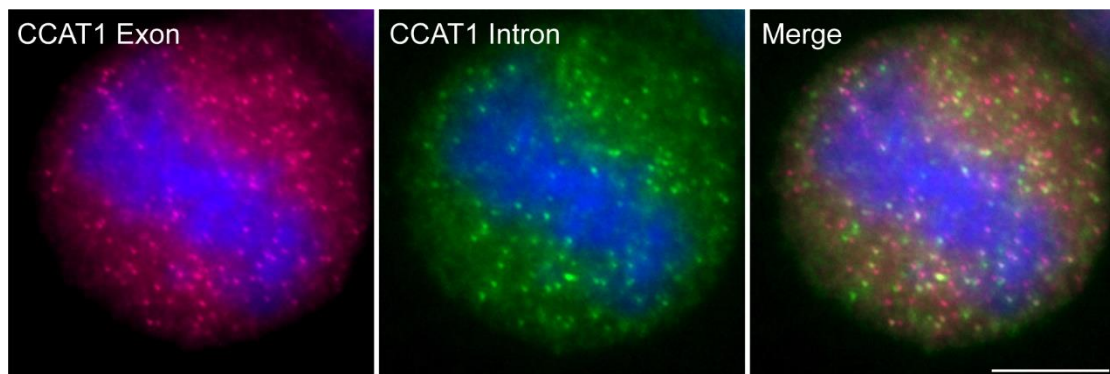
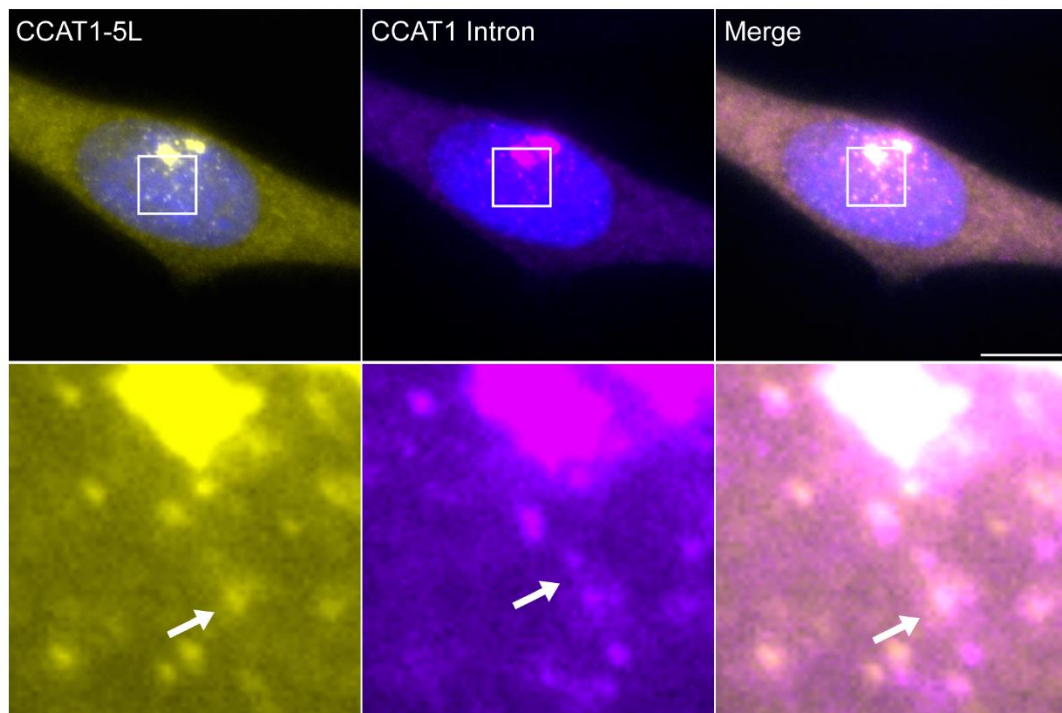


Fig. S2 *CCAT1* active genes disappear during mitosis. RNA FISH detection of *CCAT1* exon (pink), *CCAT1* intron (green). Hoechst DNA stain is in blue. Scale bar, 10 μ m.

a



b

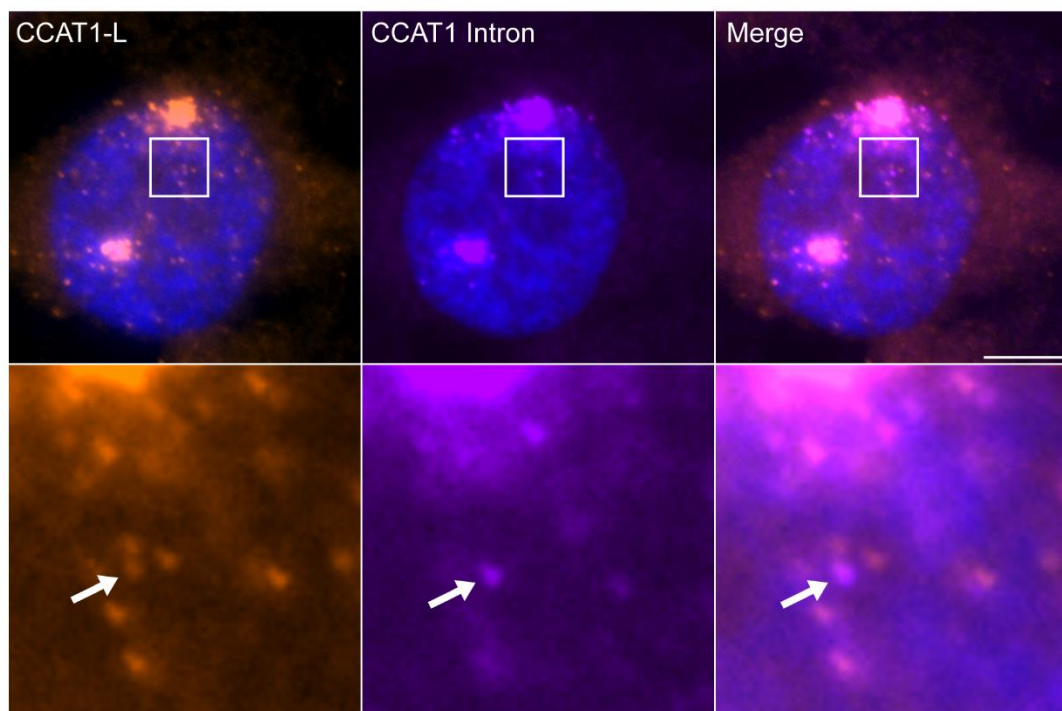


Fig. S3 All three *CCAT1* isoforms undergo post-transcriptional splicing. RNA FISH detection of **a** *CCAT1-5L* (yellow), *CCAT1* intron (purple), and **b** *CCAT1-L* (orange), shows *CCAT1-5L* and *CCAT1-L* unspliced transcripts in the nucleoplasm. Hoechst DNA stain is in blue. White arrows point to unspliced transcripts. Bar = 10 μ m.

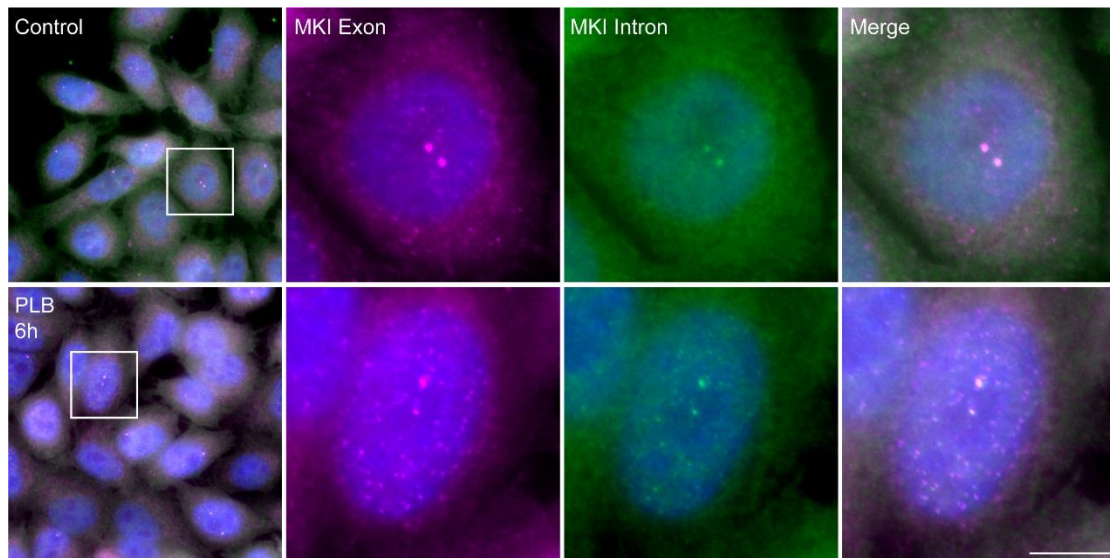


Fig. S4 *MKI* unspliced transcripts appear in the nucleoplasm during splicing inhibition by PLB. No unspliced transcripts were observed in the cytoplasm. *MKI* exon (pink), *MKI* intron (green). Hoechst DNA stain is in blue. Bar = 10 μ m.