

Supplemental Movie 1. Single-molecule imaging of HaloTag-EZH2, labeled with JF646, for diffusion analysis. The first 10 sec of one representative movie with imaging performed at 97.5 Hz. The upper left corner contains a time-stamp in seconds and the upper right corner shows a scale bar.

Supplemental Movie 2. Single-molecule imaging of HaloTag-SUZ12, labeled with JF646, for diffusion analysis. The first 10 sec of one representative movie with imaging performed at 97.5 Hz. The upper left corner contains a time-stamp in seconds and the upper right corner shows a scale bar.

Supplemental Movie 3. FRAP imaging of HaloTag-EZH2. Imaging was performed at 0.5 Hz. The lower right corner contains a time-stamp in minutes:seconds and the upper left corner shows a scale bar.

Supplemental Movie 4. Time-lapse imaging of untreated HaloTag-EZH2 cells, labeled with JF646, for lifetime analysis. Imaging was performed at 2 Hz. The lower right corner contains a time-stamp in minutes:seconds and the upper left corner shows a scale bar.

Supplemental Movie 5. Single-molecule imaging of HaloTag-EZH2, labeled with JF646, in cells expressing SUZ12(WT). The first 10 sec of one representative movie with imaging performed at 97.5 Hz. HaloTag-EZH2 cells were co-transfected with 3xFlag-SUZ12(WT), siRNA to the 3' UTR of SUZ12, and a nuclear BFP transfection marker. Transfected cells were identified using BFP fluorescence and then HaloTag-EZH2 was imaged.

Supplemental Movie 6. Single-molecule imaging of HaloTag-EZH2, labeled with JF646, in cells expressing SUZ12(PHF1+ABHmut). The first 10 sec of one representative movie with imaging performed at 97.5 Hz. HaloTag-EZH2 cells were co-transfected with 3xFlag-SUZ12(PHF1+ABHmut), siRNA to the 3' UTR of SUZ12, and a nuclear BFP transfection marker. Transfected cells were identified using BFP fluorescence and then HaloTag-EZH2 was imaged.

Supplemental Movie 7. Single-molecule imaging of HaloTag-EZH2, labeled with JF646, in cells expressing SUZ12(VEFS). The first 10 sec of one representative movie with imaging performed at 97.5 Hz. HaloTag-EZH2 cells were co-transfected with 3xFlag-SUZ12(VEFS), siRNA to the 3' UTR of SUZ12, and a nuclear BFP transfection marker. Transfected cells were identified using BFP fluorescence and then HaloTag-EZH2 was imaged.