

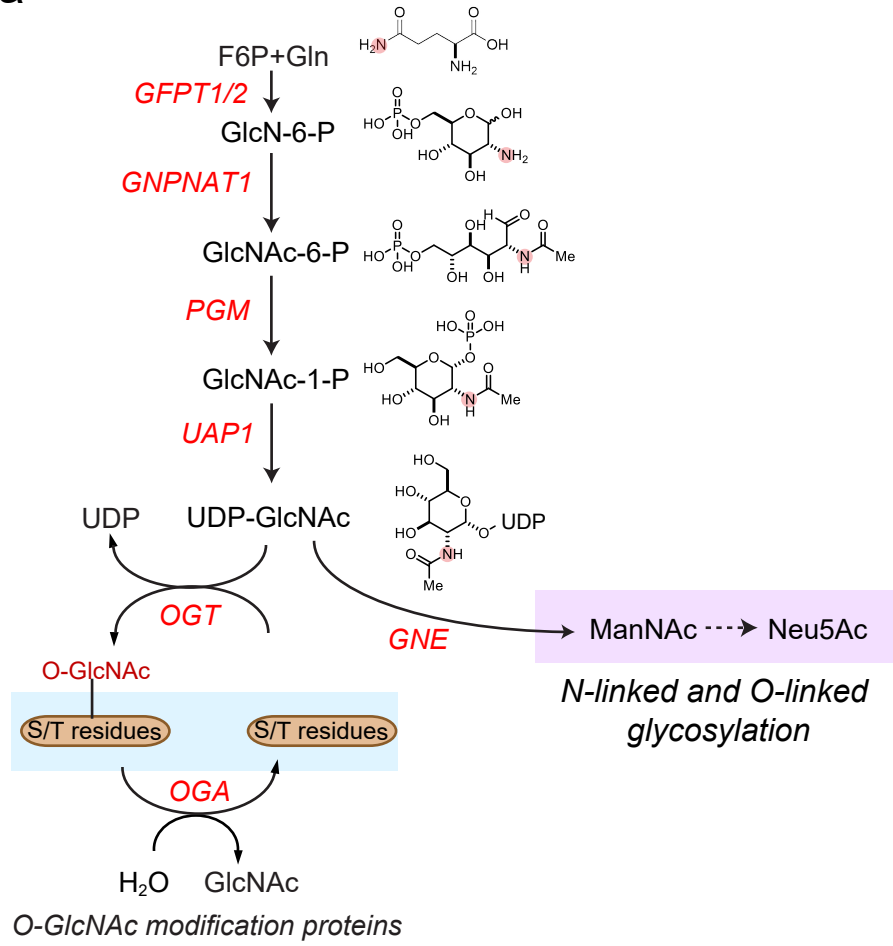
Supplementary Figure Legend.

Supplementary Fig. 1. a, Schematic of the hexosamine biosynthesis pathway and ^{15}N incorporation from $[\gamma\text{-}^{15}\text{N}]\text{glutamine}$ (labeled in pink) into the HBP intermediates. **b,** Time course of ^{15}N labeling in UDP-HexNAc, ManNAc, and Neu5Ac in K and KL cells cultured in medium containing $[\gamma\text{-}^{15}\text{N}]\text{glutamine}$ (30m, 1hr, 2hrs, and 6hrs). Individual data points represent the average value of each cell line (3 replicates/cell line). Statistical significance was assessed using two-way ANOVA followed by Sidak's multiple comparisons test. * $p < 0.05$; **** $p < 0.0001$. The stable isotope labeling experiment was performed once.

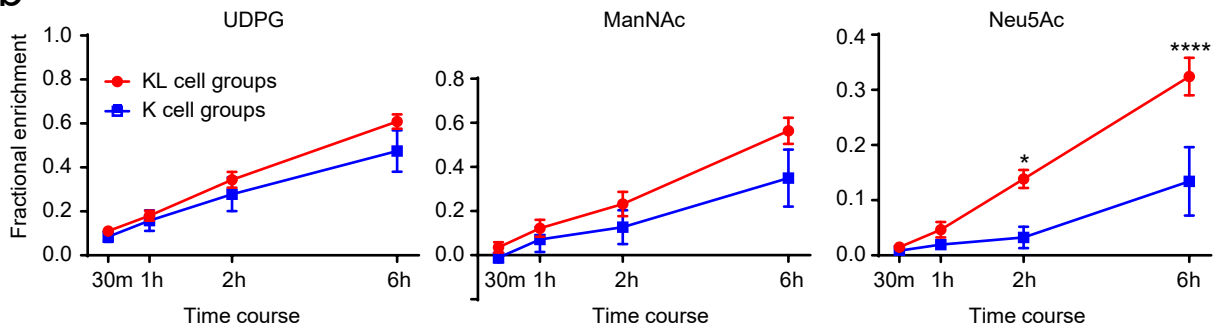
Supplementary Fig. 2. Gating strategies used throughout the study. a, Gating strategy for cell death (PI-Annexin V assays). **b,** Gating strategy for lectin binding assays.

Supplementary Fig. 3. Representative flow cytometry plots of lectin binding assays. a and b, Representative plots of the L-PHA binding (**a**) and LEA binding (**b**) assays shown in Fig 2e. The oncogenotypes of each cell line and MFI of the dot plot are shown. FACS analyses were performed twice.

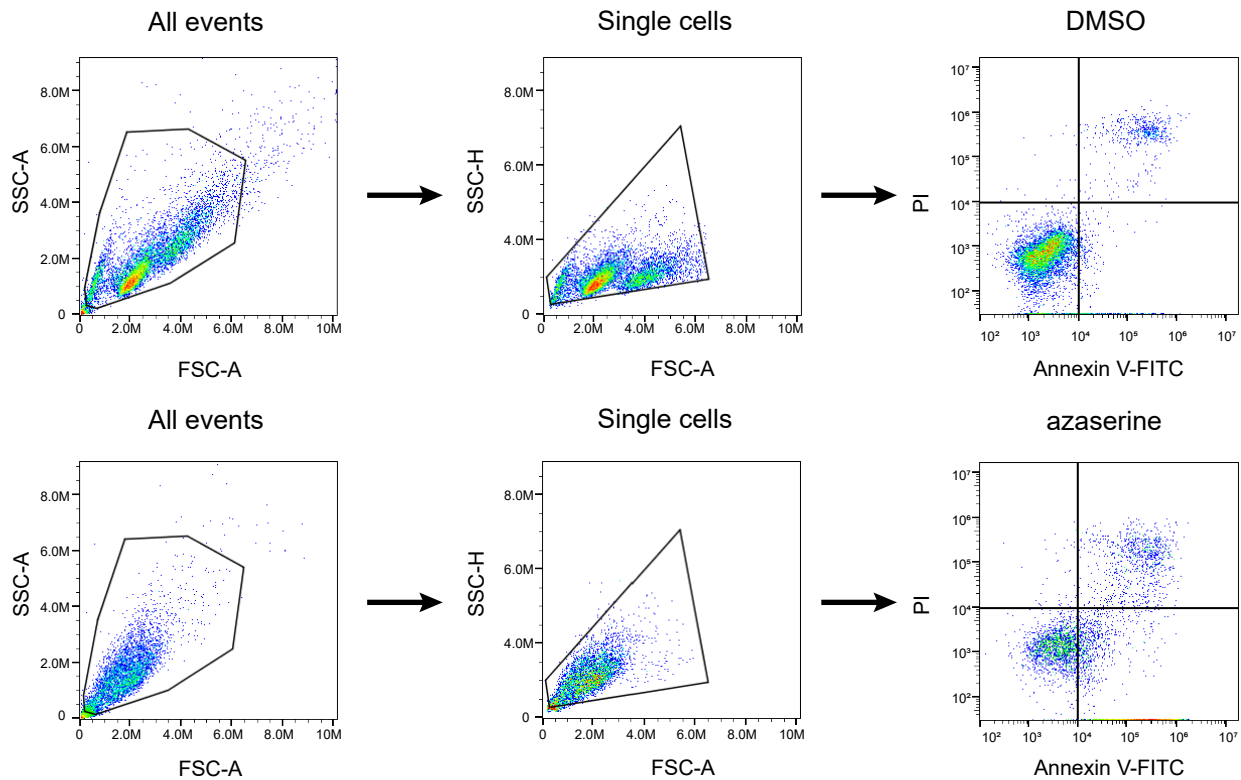
a



b

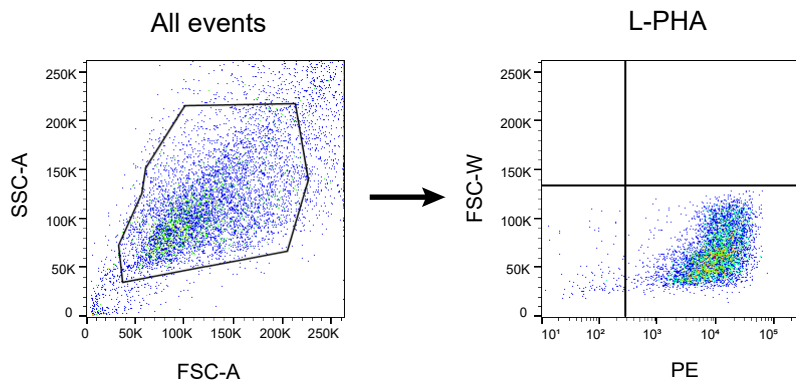


a. PI/Annexin V-FITC staining

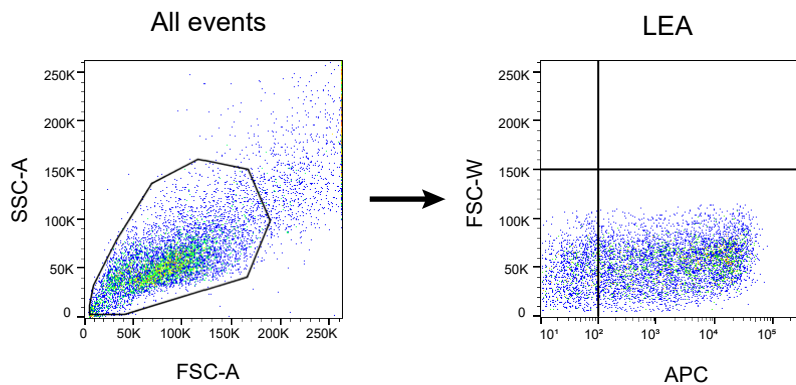


b. Lectin binding assay

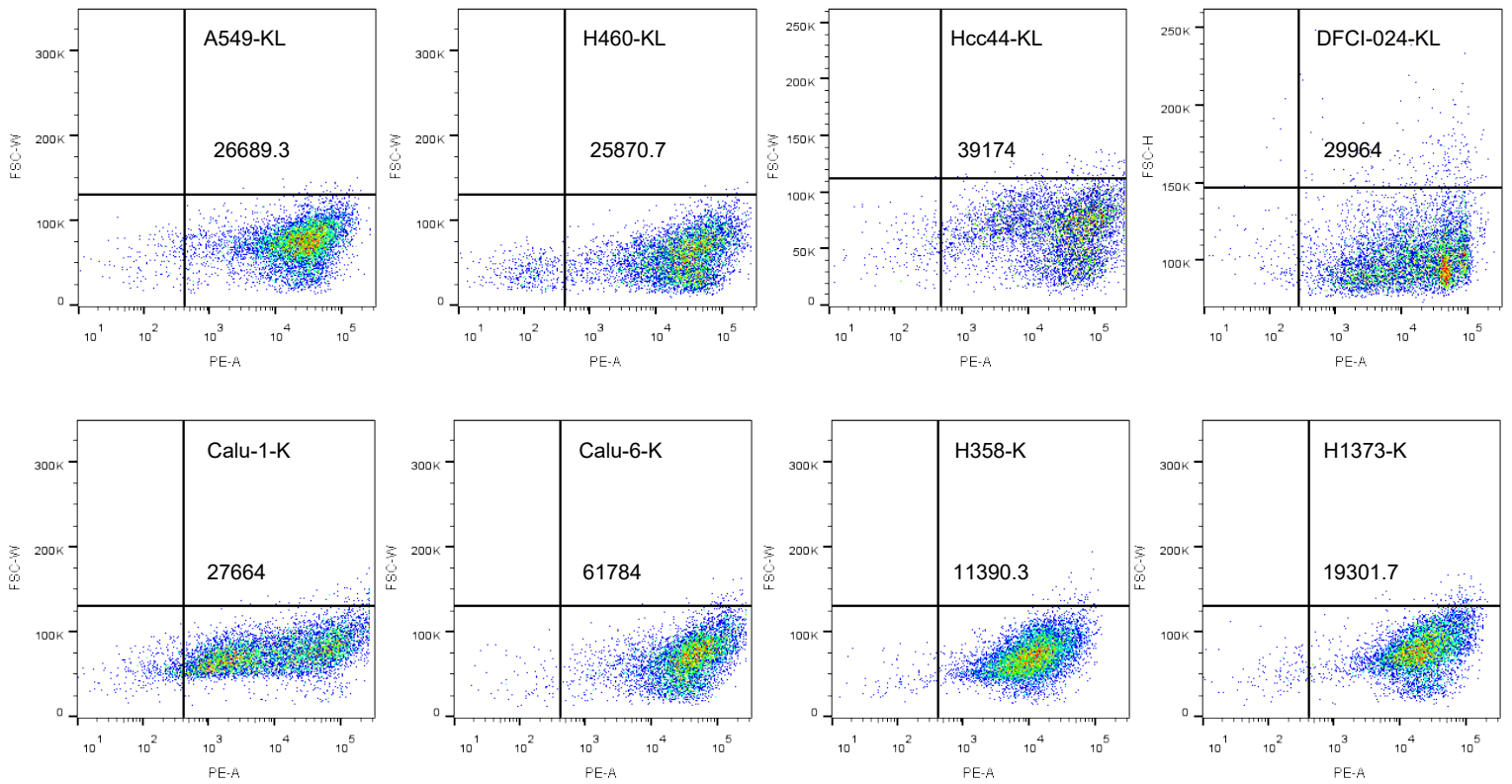
L-PHA



LEA



a. L-PHA representative dot plots



b. LEA representative dot plots

