Supporting Information

Detection and Identification of *O*-GlcNAc-modified Proteins by 6-Azido-6-deoxy-*N*-acetyl-galactosamine

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Scheme S1. Synthesis of Ac₃6AzGalNAc. Reagents: a) i) 4-toluenesulfonyl chloride, pyridine, -20 °C to r.t., 18 h; ii) NaN₃, DMF, 100 °C, 6 h; b) Ac₂O, pyridine, r.t., overnight;. 60% over three steps.

NMR spectra of Ac₃6AzGalNAc





2-acetamido-6-azido-2,6-dideoxy-D-galactopyranoside (6AzGalNAc)



1,3,4-Tri-O-acetyl-2-acetamido-6-azido-2,6-dideoxy-D-galactopyranoside (Ac₃6AzGalNAc)





Figure S1. HEK293 cells were treated with varying concentrations of Ac₃6AzGalNAc for the times indicated and were tested for toxicity using an MTT assay.



Figure S2. NIH3T3 cells were transfected with siOGT, Western blot was used to detect the interference of OGT.



Figure S3. NIH3T3 cells were treated with varying concentrations of 6AzGalNAc for 48h, followed by CuAAC and analysis by Western blot.