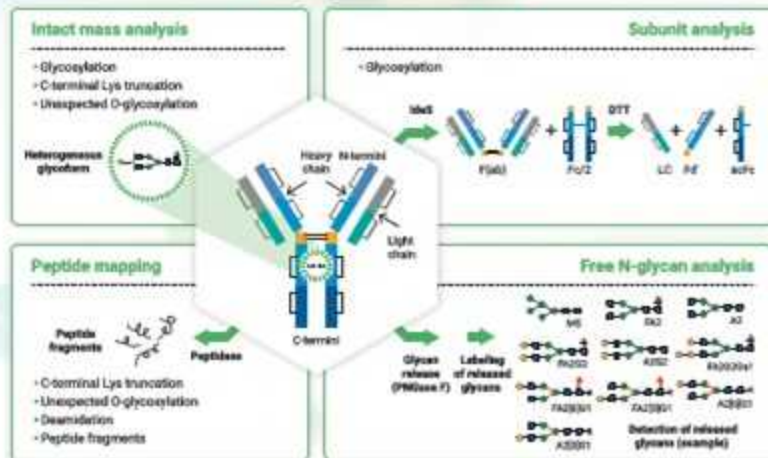


Multi-stage antibody analysis and glycoprofiling

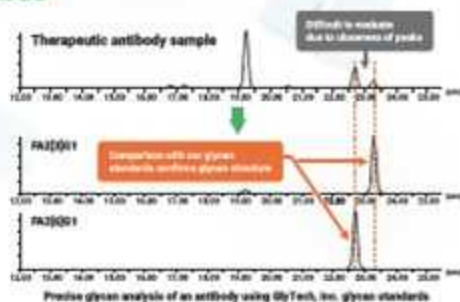
Our multi-stage analysis (intact mass analysis, subunit analysis, peptide mapping, free N-type glycan analysis) services can help you acquire a deeper understanding of your antibody, from general structure to fine structural detail. Our highly pure and homogenous glycan standards enable us to precisely identify the glycans that are present on an antibody.

Post-translational modification analysis



High precision structural identification made possible with GlyTech's glycan standards

Our glycochemistry platform allows us to produce a wide variety of homogenous glycans that are traditionally difficult to purify from natural sources. The resulting glycan standards are used to obtain optimal LC conditions under which samples containing glycans with fine differences in structure, including branching and binding positions, can be reliably separated, allowing for a more accurate structural analysis.



Sales of glycan standards for in-house structural analysis

Our catalog of glycan standards for commercial sale contains the structures that are most frequently observed during antibody glycan profiling. Multi-branched and high mannose-type glycans, and labels other than FA, 2-AB and common multi-structure method (MAM) labels are also available via custom synthesis. Glycans and derivatives for reagent use are also available. Please contact us to discuss your requirements.

Antibody = 100 units, unit = 100 µg

#	Class 1	Class 2	Class 3	Class 4
FA	20,000	35,000	50,000	65,000
2-AB	20,000	35,000	50,000	65,000
for MAM	26,000	46,000	65,000	84,500

Product list

(Oxford notation)

Key:

- HxAAC: HexNAc (blue circle)
- Mannose: Mannose (green circle)
- Galactose: Galactose (yellow circle)
- Fucose: Fucose (red triangle)
- ClacAc: GlcNAc (grey square)
- α-glycosidic bond: α-glycosidic bond (red line)
- β-glycosidic bond: β-glycosidic bond (black line)

Example: α-2,6-Galactose

Structure-guaranteed glycan standards: NMR analysis

Precision analysis of antibody glycan structure is enabled using our glycan standards, which have homogeneous structures guaranteed by NMR. We use several different multidimensional NMR techniques to identify not only the constituent monosaccharides of glycans but also the positions and configurations of their glycosidic bonds.

Complete signal assignment using 1D 1H TQZQY, 2D 1H 1H TQZQY, 2D 1H 13C TQZQY, etc.

