

...or characterise a monoclonal antibody?



We offer *all* components you need to characterise your monoclonal antibodies!

1. **GKE-5010 N-Glycanase® Plus** for deglycosylation of the Mab (or **PZGKE-5006B N-Glycanase** for proteins)
2. **GKI-4756 GlycoClean™ R Cartridge**, optional for cleanup of the glycan samples (protein removal) if you have problems with the ethanol precipitation, due to the limited amounts of the protein or its solubility in ethanol.
3. **GKK-404 Signal™ 2-AB or 2-AA Labelling Kit** for labelling the glycans.
4. **GKI-4726 GlycoClean S Cartridges** are used after 2-AB labelling to remove unreacted dye and salts.
5. **GKI-4728 GlycoSep™ N Column with the GKI-4728G N Guard Column** are used to separate the 2-AB-labeled glycans from one another (mostly by size).

GKI-4728 Glyko® GlycoSep™ N HPLC Column

A normal phase HPLC column optimized for rapid, sensitive and reproducible separation of highly heterogeneous mixtures of 2-AB-labeled neutral and acidic glycans. Separation on the basis of hydrophilicity, determined largely by the size of the glycan and, to a lesser extent, by arm specificity and linkage. Subpicomole amounts of 2-AB-labeled glycans can be resolved to provide a detailed glycosylation fingerprint.

GKI-4728G Glyko® GlycoSep™ N Guard Column

Guard column for GlycoSep N HPLC Column, used in series with GlycoSep N Column to remove sample impurities prior to the N column.

Use a guard column to prolong the life of the analytical column. Guard column life depends greatly on sample cleanliness. As a general rule, guard columns should be replaced after every 30 - 40 sample injections, when peaks become excessively wide or when peaks show splitting. ProZyme offers GlycoSep N Guard (product code GKI-4728G), specifically for use with GlycoSep N.

6. **GKSB-503 2-AB-(Glucose Homopolymer) Standard** is used to confirm proper functioning of the HPLC column, and to calculate GU numbers to corroborate and identify peaks.
7. **2-AB-labelled Standards** are available for glycan identification.

Various glycan standards appropriate for monoclonals are:

NGA2, NGA2F, NA2, NA2F, A2 and A2F. If the MAb is from mouse hybridoma, add NA2FB.

8. **These standards are also available unlabelled** for validation of the 2-AB labelling step. These are also useful as standards for analysis of the cleaved glycans with MALDI-TOF mass spectrometry.
9. **GKI-4025 GlycoClean H Cartridges** for glycan cleanup when MALDI-TOF is employed for analysis. H cartridges remove buffer salts in the samples.