

PrecisionBio Specializes in Antibody Characterization by Liquid Chromatography & Mass Spectrometry (LC-MS/MS)



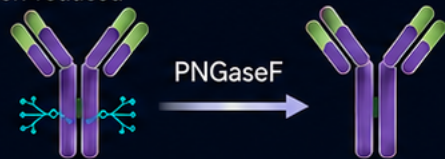
HPLC



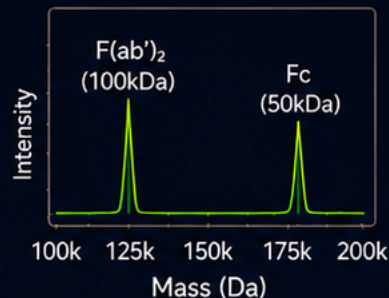
LC-MS/MS

How Intact Mass Analysis Works

De-glycosylated
Non-reduced



Intact mass analysis determines the total mass of an antibody without digesting it into subunits of Light Chain & Heavy Chain.

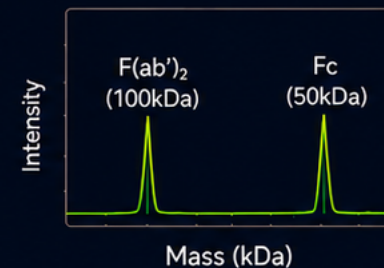


How Subunit Mass Analysis Works

De-glycosylated
Reduced



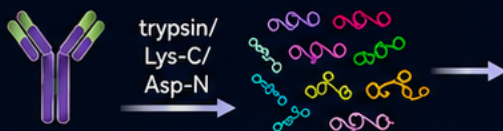
PNGaseF/
cysteine protease



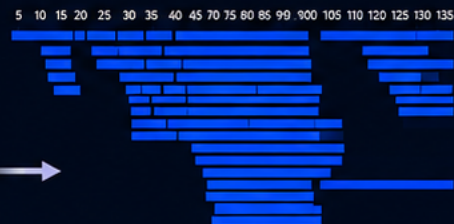
Peptide Mapping

Peptide mapping matches the masses of individual peptides to the expected masses calculated from the given sequence. The goal is to maximize coverage and confidence in the sequence confirmation.

How Peptide Mapping Analysis Works



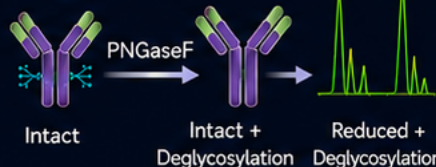
MFVFLVLLPLVSSQCVNLTRTQLPPAYTNSFTRGVVYYPDK
VFRSSVVLHSTQDLFLPFSNVTWFAIHVSGTNGTKRFDN
PVLFPNDGVYFASTEKSNIRGWIFGTITLDSKTQSLIVNN
ATNVVN



Glycosylation Analysis

Glycosylation contributes to the stability and function of a mAb. Glycans are common and can be problematic for production.

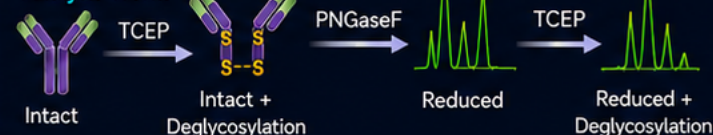
How Glycosylation Analysis Works



Sequence Variant Analysis

Errors like mutations in production are possible and must be identified very early in the process to avoid wasted efforts. Identifying these issues early on can help troubleshoot performance problems and prevent future errors in production.

How Sequence Variant Analysis Works



Comprehensive LC-MS antibody characterization solutions for quality control, developability assessment and production optimization.



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