

ABSTRACT

A method is provided that allows for antibody quantification with mass spectrometry without creating a calibration curve using an antibody of interest. An antibody analysis method is provided, including: digesting a biological protein and a target antibody with a protease; performing mass spectrometry of peptide fragments of the biological protein and the target antibody obtained by the digesting; and quantifying the target antibody based on a ratio between a detected intensity of the biological protein and a detected intensity of the target antibody obtained by the mass spectrometry, the digesting with a protease including: immobilizing the biological protein and the target antibody inside pores of a support; and bringing a microparticle close to the support, the microparticle having a diameter larger than a diameter of the pores and having a surface to which a protease is immobilized, wherein the biological protein has a domain capable of being immobilized inside the pores.