

## Poster 33 Biophysical methodologies for the QC of Abcam rabbit monoclonal antibodies and proteins

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At Abcam we are passionate about quality. We aim to deliver the highest performance products to our customers with the highest consistency to enable reproducibility.

Abcam's range of recombinant rabbit monoclonal antibodies are already known as high-quality reagents that have low batch-to-batch variability. However, we're continually striving to improve, innovate and raise the bar on quality. Biophysical QC is a high-throughput quantitative solution for faithful batch-to-batch tracking.

The introduction of Biophysical QC raises the industry standard for QC of tool antibodies.

We have undertaken to biophysically characterise all of our RUO recombinant monoclonal antibodies aligned with the biophysical characterization of our commercial protein portfolio. In characterizing >9,000 of antibodies to date (75% of portfolio), we have discovered a variety of both unexpected and expected deviations to the molecular structure of the antibody and have resolved these, ensuring a level of purity and conformance to specification not seen previously and providing enhanced quality and reproducibility.

To our knowledge, we are the only antibody manufacturer performing this work at scale.