

## Highlights

- Ultra-sensitive protein detection assay
- Measurement in the native biological environment
- Quantification and detection of proteins, protein interactions, and PTMs with a dPCR instrument



# PICO technology

## A platform technology for ultra-sensitive analysis of proteins and protein interactions with digital PCR

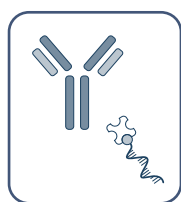
The **Protein Interaction Coupling (PICO)** technology enables the highly sensitive detection and quantification of proteins and protein interactions in their native biological environment with femtomolar sensitivity. The **PICO workflow** eliminates many potential pitfalls of classical immunoassays, such as western blot or ELISA, by having ultra high sensitivity, quantitative, zero background and high parallelism potential. The main innovation is the compartmentalized conversion of an antibody binding-based protein detection assay into a dPCR-based DNA detection event.

For the PICO assay a **pair of antibody** of your choice is required per target. The target can be a single protein, a post-translational modification (PTM), or protein interactions. A target bound by the two different antibodies, termed '**couplex**', is the molecular detection unit of the assay. The complexes are detected and counted using **QIAGEN's QIAcuity Digital PCR System** and the number of target molecules are calculated by our web-based **AMULATOR** software.

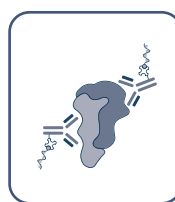
Read the **PICO Handbook**



Watch our **PICO technology** video



Antibody labeling



PICO assay



Data analysis

## Next Generation Discovery

Actome GmbH • Georges-Köhler-Allee 302 • 79110 Freiburg im Breisgau • Tel. +49 761 216 305 00

 [actome.de](http://actome.de)  [info@actome.de](mailto:info@actome.de)  [@actomegmbh](https://twitter.com/actomegmbh)  [linkedin.com/company/actome](https://linkedin.com/company/actome)  [youtube.com/@actome](https://youtube.com/@actome)