Highlights

- Materials for 120 reactions
- Efficient cell lysis
- Minimum hands-on time (< 2 hrs)
- Rapid data analysis with Actome's web-based AMULATOR software

Probes for dPCR:

- PICO BL Probe #PICO-000070
- PICO P8 Probe #PICO-000071
- PICO N6 Probe #PICO-000072
- PICO O7 Probe #PICO-000073

Further analysis with:

- QIAGEN QIAcuity dPCR system
- AMULATOR

PICO AMC Kit

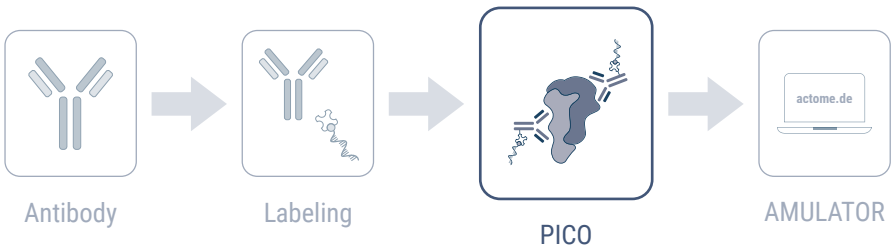
PICO Amplification Core Kit

#PICO-000010

The **PICO Amplification Core (PICO AMC) Kit** enables the highly sensitive detection and quantification of proteins and protein interactions in their native biological environment with femtomolar sensitivity. Only a very small amount of sample (e.g. cells, supernatant, blood serum, etc.) is required for the analysis. The **PICO AMC Kit** workflow includes the preparation, chemical crosslinking, lysis of the sample, and the incubation of lysates with the labeled antibodies. During the binding reaction the labeled antibodies specifically bind to their targets. Two labeled antibodies that are bound to their target are referred to as '**couplex**'. The number of couplexes is detected in a subsequent step after amplification of the **PICO DNA Labels** by digital PCR (dPCR).

Before carrying out the dPCR, the sample is highly diluted, **PICO Probes** as well as the dPCR Master Mix from QIAGEN are added. The sample is then transferred into a **24-well QIAcuity Nanoplate** and processed by the **QIAcuity dPCR system**. The high dilution and the microfluidic dPCR technology ensure single molecule compartmentalization and independent amplification of each PICO DNA Label. This results in a zero background signal and prevents cross-reactions. After the amplification and detection of the fluorescent signals by the **QIAcuity dPCR system**, the raw data is uploaded and analyzed with our web-based **AMULATOR** software.

This kit provides sufficient material for 120 reactions. The PICO AMC protocol is designed as a two-day procedure with a minimum hands-on time (< 2 hours).



Next Generation Discovery

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