

Highlights

- Contains all the individual PICO Kits
- Materials for five PICO experiments
- Rapid data analysis with Actome's web-based AMULATOR software



PICO All-in-One Set

#PICO-000020

The **PICO Assay All-in-One Set - 2 colors** contains all the individual PICO Kits required to perform a complete PICO experiment. With the All-in-One Set the customer can perform 120 dPCR reactions corresponding to **five PICO experiments**.

For the PICO assay a **pair of antibodies** of your choice is **required per target**. The target can either be **1)** a single protein, **2)** protein interaction or **3)** a post-translational modification of a protein. A target bound by the two different antibodies (termed '**couplex**') is the molecular detection unit of the assay. The two antibodies are to be provided by the customer.

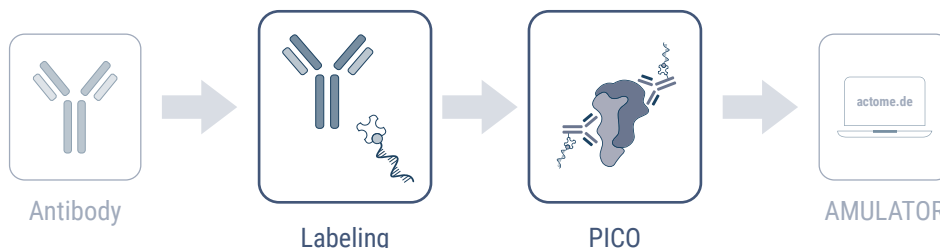
The major steps in the PICO assay:

1. Two different antibodies of your choice are labeled with **PICO DNA Labels** using the **PICO aAC** and the **PICO aCALL Kit**.
2. The labeled antibodies are mixed with the lysed sample to enable specific binding between the target and the antibody. The 'complexes' are formed. The sample is highly diluted and loaded into a dPCR assay plate.
3. In **QIAGEN's QIAcuity dPCR** instrument the sample is partitioned into thousands compartments followed by the amplification of the **PICO DNA Labels** on the antibodies. During amplification each **PICO DNA Label** generates a fluorescent signal that is detected by the dPCR instrument. Compartments with only one labeled antibody will have one color (e.g. **green OR yellow**), compartments containing the 'complexes' will have both (e.g. **green AND yellow**).
4. The raw dPCR data is uploaded to our web-based **AMULATOR** software for data analysis and statistical evaluation.



Kits included in this set:

- 1x PICOact Antibody Conjugation (aAC) Kit
- 1x PICOact Conjugated Antibody Label Loading (aCALL) Kit
- 1x PICO Amplification Core (AMC) Kit
- 1x PICOact BL Label
- 1x PICOact P8 Label
- 1x PICO BL Probe
- 1x PICO P8 Probe



Next Generation Discovery

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