

Product Information

Duolink® In Situ Probemaker PLUS

Product Number **DUO92009**

Storage Temperature $-20\text{ }^{\circ}\text{C}$

Product Description

Duolink® In Situ Probemaker PLUS enables quick and convenient conjugation of the PLA® PLUS oligo-nucleotide arm directly to a primary antibody or secondary antibody raised against haptens or species of choice. To perform a complete Duolink In Situ experiment, one needs a pair of PLA probes (one PLUS and one MINUS) and detection reagents of choice. Recommended reagents include Wash Buffers and Mounting Medium.

Components

Sufficient components are provided to conjugate 20 μg of antibody at a concentration of 1 mg/ml.

Duolink In Situ oligonucleotide PLUS – One vial with lyophilized activated PLUS oligonucleotide for one conjugation of 20 μg antibody
Catalog Number DUO82031

Conjugation Buffer – buffer for the conjugation reaction
Catalog Number DUO82033

Stop Reagent – for stopping the conjugation reaction
Catalog Number DUO82034

Storage Solution – Buffer for preserving the prepared PLA probe (conjugated antibody)
Catalog Number DUO82035

20 \times Assay Reagent – Reagent to be added to experimenter optimized antibody diluent.
Catalog Number DUO82037

Blocking Solution – For blocking of sample prior to staining with Duolink In Situ
Catalog Number DUO82007

PLA probe Diluent – Buffer for diluting the PLA probe (conjugated antibody) to the final assay concentration
Catalog Number DUO82036

Precautions and Disclaimer

This product is for R&D use only, not for drug, household, or other uses. Please consult the Safety Data Sheet for information regarding hazards and safe handling practices.

Preparation Instructions

The Duolink In Situ oligonucleotide PLUS, Conjugation Buffer, Stop Reagent, and Storage Solution are supplied ready to use in the conjugation procedure. Vortex all liquid components before use.

20 \times Assay Reagent is added to experimenter optimized antibody diluent. Vortex before use and dilute this reagent 1:20 in optimized antibody diluent. This preparation is used in Duolink In Situ experiments.

Note: If the blocking solution or antibody diluent has not been previously optimized for the antibody, please use the included Blocking Solution and PLA probe Diluent. Both are supplied ready to use.

Antibody for conjugation – The antibody should have a concentration of 1 mg/ml. 20 μg (20 μl) of antibody is required per conjugation. The antibody must be in an amine free buffer, ideally PBS. The buffer should be carrier and preservative free, but may contain up to 0.1% BSA, 5% trehalose, and 0.02% sodium azide.

Storage/Stability

Store the components at $-20\text{ }^{\circ}\text{C}$.

Store the prepared custom PLA probe PLUS (conjugated antibody) at $2\text{--}8\text{ }^{\circ}\text{C}$. **Do not freeze the PLA probes.** The Storage Solution contains buffer and reagents for stabilizing the conjugated antibody. Note: Other components may need to be added to preserve the specific antibody.

Procedure

The procedure for antibody conjugation and procedures for use of the custom PLA probe PLUS in Duolink In Situ experiments can be found in the Duolink PLA Probemaker Protocol found in the Duolink Resource Center sigma.com/duolink.

Duolink and PLA are registered trademarks of Sigma-Aldrich Co., LLC.

SG,PCG,MAM 12/18-1