



Duolink[®] Using PLA[®] Technology

Save 20% on the Starter Kits*

Protein Interaction

Accelerate the Signaling Pathway Discovery Process

Detect, quantify and determine cell localisation of a specific protein complex in the same experiment. Duolink, which is based on the in situ PLA technology, enables you to visualise protein interactions in fixed cells and tissue samples, all while under endogenous protein expression.

- Visualise individual interactions without having to overexpress proteins
- Gain high specificity with dual binding of primary antibodies
- Single molecule sensitivity due to signal amplification
- Analyse using standard immunofluorescence instruments
- Higher accuracy compared to Co-IP

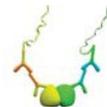
Preparation



STEP 1. Fix cells or tissues onto microscope slide or microplate.



STEP 2. Wash and add two primary antibodies.



STEP 3. Wash and add the PLUS and MINUS PLA probes.

Detection



STEP 4. Wash and add Ligation solution.

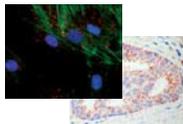


STEP 5. Wash and add Amplification solution.

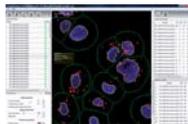


STEP 6. Review and capture images.

Analysis



STEP 7. Single protein interactions visualised using fluorescence and brightfield respectively.



STEP 8. Obtain objective quantification using Duolink Image Tool.



STEP 9. Data analysis.

Cells or tissue deposited on slides or in microplates are fixed (Step 1) to preserve activation status and transient interactions. Validated primary antibodies for the targets are added (Step 2) followed by Duolink secondary PLA probes (Step 3). Detection is performed by forming a reporter substrate based on the proximity of the two primary antibodies used (Step 4) followed by amplification (Step 5). The result is visualised using a standard microscope (Steps 6 and 7). The resulting images can easily be quantitatively analysed using Duolink Image Tool software (Step 8), which facilitates both average and single cell data analysis (Step 9).

Cat. No.	Antibodies	List Price (AUD)	Promo Price (AUD)
DUO92102-1KT	Mouse/Rabbit (Orange)	1,246.00	996.80
DUO92104-1KT	Mouse/Goat (Orange)	1,246.00	996.80
DUO92106-1KT	Goat/Rabbit (Orange)	1,246.00	996.80
DUO92101-1KT	Mouse/Rabbit (Red)	1,246.00	996.80
DUO92103-1KT	Mouse/Goat (Red)	1,246.00	996.80
DUO92105-1KT	Goat/Rabbit (Red)	1,246.00	996.80

*This Starter Kit supplies all other necessary reagents which include; a pair of PLA probes, one PLUS and one MINUS, Detection Reagents, Wash Buffers and Mounting Medium. One kit contains 30 reactions. Offer is not available on individual components.

Reference promo code **754** when placing your order.

Offer expires 31 December, 2016

To discover our full range of products, visit sigma.com/duolink

For more information, contact:

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