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DUO92002 ▶ Sigma-Aldrich®

Duolink® In Situ PLA® Probe Anti-Rabbit PLUS

★★★★★ (0)

Affinity purified Donkey anti-Rabbit IgG (H+L)

Synonyme(s):

in situ Proximity Ligation Assay reagent, Protein Protein Interaction Assay reagent

NACRES: NA.32

Référence	Conditionnement	Disponibilité	Prix	Quantité
DUO92002-30RXN	30 REACTIONS	✓ Disponible pour expédition le 07 octobre 2022	Détails... 303,00 €	— + 
DUO92002-100RXN	100 REACTIONS	✓ Disponible pour expédition le 07 octobre 2022	Détails... 424,00 €	— + 

[Demander une commande en gros](#)

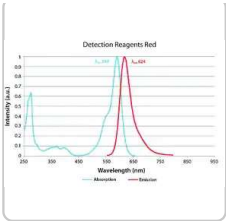
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PRODUITS RECOMMANDÉS



Sigma-Aldrich
DUO92004
Duolink® In Situ PLA® Probe Anti-Mouse MINUS
Affinity purified Donkey anti-Mouse IgG (H+L)

[Consulter le prix et la disponibilité](#)



Sigma-Aldrich
DUO92101
Duolink® In Situ Red Starter Kit Mouse/Rabbit

[Consulter le prix et la disponibilité](#)

PROPRIÉTÉS

Source biologique	donkey (polyclonal)
Niveau de qualité	200
Forme d'anticorps	affinity purified immunoglobulin (secondary antibody)
antibody product type	primary antibodies
Gamme de produits	Duolink®
species reactivity	rabbit
technique(s)	immunofluorescence: suitable proximity ligation assay: suitable
Adéquation	suitable for brightfield suitable for fluorescence
Expédié(e)s dans	wet ice

Temp. de stockage2-8°C

Catégories apparentées

[Duolink® Proximity Ligation Assay](#)

DESCRIPTION

Application

[Duolink® proximity ligation assay \(PLA®\)](#) allows for endogenous detection of protein interactions, post translational modifications, and protein expression levels at the single molecule level in fixed cells and tissue samples.

This product can be applied to both the [Duolink® In Situ Fluorescence Protocol](#) and the [Duolink® In Situ Brightfield Protocol](#) depending on the detection reagents used.

Visit our [Duolink® PLA Resource Center](#) for information on how to run a Duolink® experiment, applications, troubleshooting, and more.

To perform a complete Duolink® PLA *in situ* experiment you will need two primary antibodies ([PLA, IHC, ICC or IF validated](#)) that recognize two target epitopes. Other necessary reagents include a pair of PLA probes from different species (one PLUS and one MINUS), detection reagents, wash buffers, and mounting medium. Note that the primary antibodies must come from the same species as the Duolink® PLA probes. Analysis is carried out using standard immunofluorescence assay equipment. HRP is also available for brightfield detection.

Specificity

PLA probe anti-Rabbit reacts with whole molecule Rabbit IgG and the light chains of other Rabbit immunoglobulin's. The PLA probe anti-Rabbit has minimal cross reactivity with bovine, chicken, goat, guinea pig, Syrian hamster, horse, human, rabbit, and

sheep serum proteins. A MINUS probe of a different species must be used simultaneously with this product. See our [Product Selection Guide](#) for more information.

Application Note

Two primary antibodies raised in different species are needed. Test your primary antibodies (IgG-class, mono- or polyclonal) in a standard immunofluorescence (IF), immunohistochemistry (IHC) or immunocytochemistry (ICC) assay to determine the optimal fixation, blocking, and titer conditions. Duolink[®] PLA *in situ* reagents are suitable for use on fixed cells, cytospin cells, cells grown on slide, formalin-fixed, paraffin embedded (FFPE), or tissue (fresh or frozen). No minimum number of cells is required.

Let us do the work for you, learn more about our [Custom Service Program](#) to accelerate your Duolink[®] projects

[View full Duolink[®] product list](#)

Caractéristiques et avantages

- No overexpression or genetic manipulation required
- High specificity (fewer false positives)
- Single molecule sensitivity due to rolling circle amplification
- Relative quantification possible
- No special equipment needed
- Quicker and simpler than FRET
- Increased accuracy compared to co-IP
- Publication-ready results

Composants

This product is comprised of the following:

- 5x PLA Probe Anti-Rabbit PLUS - Donkey anti-rabbit secondary antibody conjugated to oligonucleotide PLUS

- 1x Blocking Solution - Reagent for blocking of the sample
- 1x Antibody Diluent - For dilution of PLA probes and primary antibodies

See datasheet for more information.

Informations légales

Duolink is a registered trademark of Sigma-Aldrich Co. LLC

PLA is a registered trademark of Sigma-Aldrich Co. LLC

INFORMATIONS SUR LA SÉCURITÉ

Pictograms



GHS07,GHS09

Mention d'avertissement

Warning

Mentions de danger

H317 - H411

Conseils de prudence

P261 - P272 - P273 - P280 -
P302 + P352 - P333 + P313

Classification des risques

Aquatic Chronic 2 - Skin Sens.
1

Code de la classe de stockage

12 - Non Combustible Liquids

WGK

WGK 3

Flash Point(F)

Not applicable

Point d'éclair C

Not applicable

DOCUMENTATION

Certificat d'analyse

Saisir un numéro de lot pour rechercher un certificat d'analyse (COA).

Numéro de lot

e.g. 023J5431

Comment saisir un numéro de lot (COA)

Rechercher

Certificat d'origine

Saisir un numéro de lot pour rechercher un certificat d'origine (COO).

Numéro de lot

e.g. 023J5431

Comment saisir un numéro de lot (COO)

Rechercher

Fiches Techniques

Data Sheet - DUO92002

Manuel D'utilisation

Using Duolink in Multiwell Plates

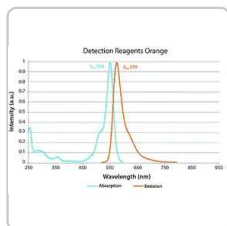
Notes D'application

Duolink Rehybridization Application Note

Visualizing DNA Methylation (5mC) on a Specific Genomic Locus (SEPTIN 9) in Individual Human Cancer Cells

FDS

LES CLIENTS ONT ÉGALEMENT CONSULTÉ

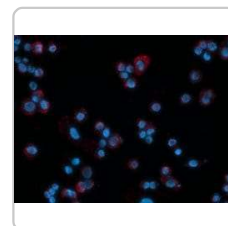


Sigma-Aldrich

DUO92102

Duolink® In Situ Orange Starter Kit
Mouse/Rabbit

[Consulter le prix et la disponibilité](#)



Sigma-Aldrich

DUO92013

Duolink® In Situ Detection Reagents FarRed

[Consulter le prix et la disponibilité](#)

QUESTIONS FRÉQUEMMENT POSÉES (FAQ)

Which document(s) contains shelf-life or expiration date information for a given product?

If available for a given product, the recommended re-test date or the expiration date can be found on the Certificate of Analysis.

How do I get lot-specific information or a Certificate of Analysis?

The lot specific COA document can be found by entering the lot number above under the "Documents" section.

How do I find price and availability?

There are several ways to find pricing and availability for our products. Once you log onto our website, you will find the price and availability displayed on the product detail page. You can contact any of our Customer Sales and Service offices to receive a quote. USA customers: 1-800-325-3010 or view [local office numbers](#).

What is the Department of Transportation shipping information for this product?

Transportation information can be found in Section 14 of the product's (M)SDS. To access the shipping information for this material, use the link on the product detail page for the product.

What epitope on the antibody is recognized by the Duolink PLA Probes?

The Duolink PLA Probes offered are donkey polyclonal antibodies directed to the whole molecule (heavy and light chains). They are affinity purified. The same polyclonal antibody is conjugated to the Plus and Minus Oligos. The Plus and Minus probes can be used together (to detect a single antibody) since they can recognize multiple sites. The anti-mouse IgG PLA labeled antibodies may cross-react with rat but this is not consistent. Do not use this product with rat antibodies. It is best to label anti-rat secondary antibodies with the Duolink Probemaker kit. The anti-goat IgG PLA labeled antibodies have cross-reactivity with sheep IgG and can be recommended for this application.

Has Duolink been used for detection of changes in protein expression?

The following reference cites the use of Duolink to detect changes in protein expression in Human. Raizer et al., Cancer 2010;116:5297-305

How many reactions can be performed with the Duolink® In Situ Starter Kit?

All of the starter kits for the Duolink product line will perform 30 reactions using 40 ul per reaction. DUO92101 - Duolink® In Situ Red Starter Kit Mouse/Rabbit DUO92102 - Duolink® In Situ Orange Starter Kit Mouse/Rabbit DUO92103 - Duolink® In Situ Red Starter Kit Mouse/Goat DUO92104 - Duolink® In Situ Orange Starter Kit Mouse/Goat DUO92105 - Duolink® In Situ Red Starter Kit Goat/Rabbit DUO92106 - Duolink® In Situ Orange Starter Kit Goat/Rabbit

My question is not addressed here, how can I contact Technical Service for assistance?

Ask a Scientist [here](#).

ARTICLES REVUS PAR DES PAIRS

Chloroquine triggers Epstein-Barr virus replication through phosphorylation of KAP1/TRIM28 in Burkitt lymphoma cells.

Xiaofan Li et al.

PLoS pathogens, 13(3), e1006249-e1006249 (2017-03-02)

Trials to reintroduce chloroquine into regions of Africa where *P. falciparum* has regained susceptibility to chloroquine are underway. However, there are long-standing concerns about whether chloroquine increases lytic-replication of Epstein-Barr virus (EBV), thereby contributing to the

development of endemic Burkitt

Site-specific identification of SUMO-2 targets in cells reveals an inverted SUMOylation motif and a hydrophobic cluster SUMOylation motif.

Ivan Matic et al.

Molecular cell, 39(4), 641-652 (2010-08-28)

Reversible protein modification by small ubiquitin-like modifiers (SUMOs) is critical for eukaryotic life. Mass spectrometry-based proteomics has proven effective at identifying hundreds of potential SUMO target proteins. However, direct identification of SUMO acceptor lysines in complex samples by mass spectrometry

Angiopoietin-like 4 protein elevates the prosurvival intracellular O₂(-):H₂O₂ ratio and confers anoikis resistance to tumors.

Pengcheng Zhu et al.

Cancer cell, 19(3), 401-415 (2011-03-15)

Cancer is a leading cause of death worldwide. Tumor cells exploit various signaling pathways to promote their growth and metastasis. To our knowledge, the role of angiopoietin-like 4 protein (ANGPTL4) in cancer remains undefined. Here, we found that elevated ANGPTL4

Progesterone regulation of progesterone receptor membrane component 1 (PGRMC1) sumoylation and transcriptional activity in spontaneously immortalized granulosa cells.

John J Peluso et al.

Endocrinology, 153(8), 3929-3939 (2012-06-22)

Progesterone (P4) receptor membrane component (PGRMC)1 is detected as a 22-kDa band as well as higher molecular mass bands (>50 kDa) in spontaneously immortalized granulosa cells. That these higher molecular mass bands represent PGRMC1 is supported by the findings that

VEGF inhibits tumor cell invasion and mesenchymal transition through a MET/VEGFR2 complex.

Kan V Lu et al.

Cancer cell, 22(1), 21-35 (2012-07-14)

Inhibition of VEGF signaling leads to a proinvasive phenotype in mouse models of glioblastoma multiforme (GBM) and in a subset of GBM patients treated with bevacizumab. Here, we demonstrate that vascular endothelial growth factor (VEGF) directly and negatively regulates tumor

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PROTOCOLES ET ARTICLES SCIENTIFIQUES

Articles

[Detection of Protein-protein Interactions by in situ PLA](#)

Proteins are complex biological molecules essential for cellular structure and functions. The majority of proteins commonly interact with various molecules, including other proteins, in order to exert their functions.

[Duolink® References](#)

Find Duolink references based on the type of method used, post translational modification detected, and research focus.

[How to Optimize the Duolink® Proximity Ligation Assay](#)

Things to consider for preparation, setup and execution of the Duolink® assay protocol

[Duolink® PLA Troubleshooting Guide](#)

Support information including tips and tricks, frequently asked questions, and basic troubleshooting.

Protocoles

[Duolink® PLA Flow Cytometry Protocol](#)

Protocol for use of Duolink® PLA reagents for the detection of individual proteins, protein modifications, and protein-protein interactions within cell populations by flow cytometry.

Contenu apparenté

[Protein & Nucleic Acid Interactions](#)

Protein and nucleic acid interaction reagents and resources for investigating protein-RNA, protein-DNA, and protein-protein interactions and associated applications.

Interactions entre protéines et acides nucléiques

Réactifs pour interactions entre protéines et acides nucléiques, ressources permettant d'étudier les interactions protéines/ARN, protéines/ADN et protéines/protéines, et applications associées.

Duolink® PLA Applications

Applications to detect, quantify and visualize protein-protein interactions, post-translational modifications and low expression protein detection using proximity ligation assay

PRODUITS CONSULTÉS RÉCEMMENT

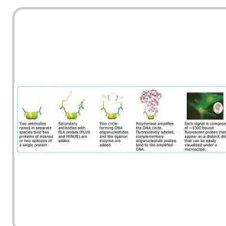


Sigma-Aldrich

DUO92001

Duolink® In Situ PLA® Probe Anti-Mouse PLUS

[Consulter le prix et la disponibilité](#)



Sigma-Aldrich

DUO82064

Duolink® In Situ Microplate Nuclear Stain, Anti-Fade

[Consulter le prix et la disponibilité](#)

Évaluations



[Soyez le premier à donner votre avis sur ce produit](#)

Questions

Soyez le premier à poser une question

SERVICE TECHNIQUE

Notre équipe de scientifiques dispose d'une expérience dans tous les secteurs de la recherche, notamment en sciences de la vie, science des matériaux, synthèse chimique, chromatographie, analyse et dans de nombreux autres domaines..

Contactez notre Service technique

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