## SARS-CoV-2 Membrane Protein Proximity Ligation Assay (PLA) Kit (Cy3)

## Cat. No. GTX537371-23

| Applications | PLA                | Package<br>5 test |
|--------------|--------------------|-------------------|
| Reactivity   | SARS Coronavirus 2 |                   |

**Datasheet** 

#### PRODUCT

Content

| ltem | Name                                   | Quantity  | Storage      |
|------|--|-----------|--------------|
| A1   | Blocking Solution, 10 mL               | 2 bottles | -20 °C       |
| A2   | Antibody (Ab)-Oligo A, 40 µL           | 1 tube    | -20 °C       |
| A3   | Antibody (Ab)-Oligo B, 40 µL           | 1 tube    | -20 °C       |
| A4   | Ligase (400 U/µL), 10 µL               | 1 tube    | -20 °C       |
| A5   | 5x Ligation Solution, 500 µL           | 1 tube    | -20 °C       |
| A6   | Polymerase (10 U/µL), 10 µL            | 1 tube    | -20 °C       |
| A7   | 5x Amplification Solution, 500 $\mu$ L | 1 tube    | -20 °C       |
| A8   | Detection Probe (Cy3), 50 µL           | 1 tube    | -20 °C       |
| B1   | 10x Probe Solution, 200 μL             | 1 tube    | 4°C or below |
| B2   | 20x Wash Buffer, 50 mL                 | 2 bottles | 4°C or below |

Summary

The SARS-CoV-2 Membrane Protein Proximity Ligation Assay (PLA) Kit (Cy3) enables the detection of SARS-CoV-2 membrane protein in virus-infected tissue or infected/transfected cell block samples. The viral membrane protein is detected using two oligonucleotide-conjugated primary antibodies, called PLA probes. Only when both PLA probes bind to the membrane protein can the assay generate an amplified signal. This provides researchers with a highly specific and sensitive diagnostic tool.

#### Applications

#### **Application Note**

Please see the protocol for detailed procedure.

**Product Note** 

This PLA kit detects SARS-CoV-2 membrane protein.

| Properties |  |
|------------|--|
| Form       | Liquid   |
| Storage    | Individual components are stored at -20°C or 4°C as indicated. |



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| Conjugation | Cyanine3 (Cy3) <u>Wavelength</u>  |
|-------------|---|
| Note        | For laboratory research use only. Not for any clinical, therapeutic, or diagnostic use in humans or animals. Not for animal or human consumption.                           |
|             | Purchasers shall not, and agree not to enable third parties to, analyze, copy, reverse engineer or otherwise attempt to determine the structure or sequence of the product. |

### DATA IMAGES



#### GTX537371-23 PLA Image

Detection of SARS-CoV-2 (COVID-19) membrane protein in a transfected HEK293T cell FFPE Cell Pellet Block (GTX435640) section using the SARS-CoV-2 Membrane Protein Proximity Ligation Assay Kit (Cy3) (GTX537371-23). PLA signals appear yellow and nuclei are blue. A) Positive PLA reaction in transfected HEK293T cells. B) Negative control with mock-transfected HEK293T cells.

C) Negative control using one non-specific PLA antibody probe in transfected HEK293T cells.



#### GTX537371-23 Image



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