Thermo Scientific EliA SARS-CoV-2-Sp1 IgG Test

An assay designed to support global efforts to understand the COVID-19 pandemic

Quantitative measurement of IgG antibodies to the SARS-CoV-2 spike (S) S1 protein, with all of the benefits of Thermo Scientific™ EliA™ test technology on the fully automated Thermo Scientific™ Phadia™ 250 laboratory system.

Quantitative IgG results can be useful for many applications

- Understanding the variation in antibody levels in COVID-19 patients
- Tracking antibody trends in patients over time
- Screening convalescent plasma and understanding potential immunity and vaccine response

The value of S-protein diagnostics and IgG detection

**IgG antibodies**
- Antibodies of this isotype persist post-symptom onset and are likely important for long-term immunity.

**S protein**
- The major surface protein that SARS-CoV-2 uses to bind to a receptor and invade cells.
- The major target of many vaccine approaches, with the goal of eliciting neutralizing antibodies.

**RBD**
- The major target of neutralizing antibodies.
- A unique region with less similarity to other coronaviruses, which helps eliminate cross-reactivity and improve assay specificity.
Results you can trust: Exceptional clinical performance in diverse samples*

- **100% sensitivity eight days after a positive PCR test** observed in a study of 65 subjects who presented with moderate-to-severe COVID-19 symptoms.

- **99.7% specificity** in 330 ethnically diverse samples from age- and gender-matched pre-pandemic blood donors.

- **No cross-reactivity** was detected when using the EliA SARS-CoV-2-Sp1 IgG Test to test 747 specimens from people with infectious or autoimmune diseases ranging from influenza and HIV to other human coronaviruses.

* Demonstrated in experiments for IVD CE Marking.

Seamless integration onto the Phadia 250 laboratory system

- Full automation, including dilutions.
- Minimal hands-on system prep time and long walkaway times.
  - On-board reagent storage.
  - Ready-to-use reagents.
- A shared 28-day stable calibration curve with over 20 other EliA IgG tests, including all EliA tests for Connective Tissues Diseases as well as EliA CCP.

### Product

<table>
<thead>
<tr>
<th>Product</th>
<th>Article No.</th>
<th>Kit Size</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Thermo Scientific EliA SARS-CoV-2 Sp1 IgG Test</td>
<td>14-6663-01</td>
<td>4 carriers (16 wells each); sufficient for 64 determinations</td>
<td>Fluoroenzymeimmunoassay (FEIA) intended for quantitative detection of IgG antibodies to SARS-CoV-2 spike 1 in human serum and plasma (Li-heparin, EDTA)</td>
</tr>
<tr>
<td>EliA CoV Positive Control C1 250</td>
<td>83-1185-01</td>
<td>6 single-use vials (0.3 mL each); sufficient for 2 determinations per vial</td>
<td>Control containing IgG antibodies to SARS-CoV-2 spike 1 protein</td>
</tr>
</tbody>
</table>

References


© 2020 Thermo Fisher Scientific Inc. All rights reserved. All trademarks are the property of Thermo Fisher Scientific and its subsidiaries unless otherwise specified. 130805.AI.US1.EN.v2.20