

Fast and efficient mass
testing of recent COVID-19
infection

Serological antibody detection test

- The test is intended for professional use to help detect **recent** COVID-19 infection
- The semiquantitative test detects **IgG** specific to SARS-CoV-2
- The test plates and reagents are developed and produced **in Finland**
- The first batches will be available for testing purposes in **September 2020**

Actim[®] ELISA SARS-CoV-2 IgG

- 40 replicates or 80 single samples can be run in one plate.
- Sample type is **serum** or **plasma** from venous blood.
- Test results are available in **less than two hours**.
- Test kit contains **all reagents** needed for testing.

FIG. 1

Test is a sandwich enzyme-linked immunoassay



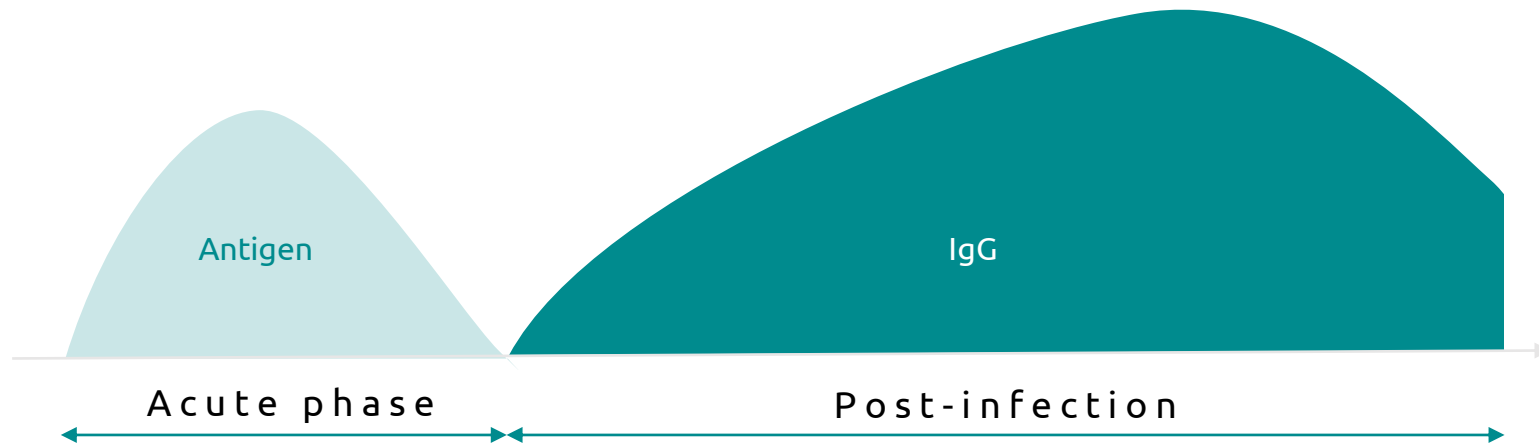
HRP conjugated anti-human IgG

Sample (serum/plasma)

Antigen on plate

FIG. 2

Test can be done approx. 1 week to months after infection



Evaluation study of over 600 serum samples

Actim ELISA SARS-CoV-2 IgG	PCR pos	PCR neg
Pos	73	8
Neg	3	555

Overall performance data of serum samples collected ≥ 7 days after the positive PCR results.

Excellent performance of Actim ELISA SARS-CoV-2 IgG

Sensitivity	96%
Specificity	99%
PPV	90%
NPV	99%
Accuracy	98%

Method comparison

Method	Sensitivity
Actim ELISA SARS-CoV-2 IgG S1	96%
ELISA IgG, Competitor A	70%
ELISA IgG, Competitor B	72%
ELISA IgG, Competitor C	80%

SENSITIVITY

96%

Actim ELISA SARS-CoV-2 test has the best sensitivity.

Analytical specificity

- Actim ELISA SARS-CoV-2 IgG kit was evaluated for cross-reactivity with other viruses.
- A negative test result was obtained with all samples:
 - Adenovirus IgG
 - Cytomegalie Virus (CMV) IgG
 - Herpes Simplex 1+2 IgG
 - Influenzaviruses type A IgG
 - Influenzaviruses type B IgG
 - Mumps Virus (Parotitis) IgG
 - Mycoplasma pneumoniae IgG
 - Parainfluenza 1/2/3 IgG
 - Parvovirus B19 IgG
 - Respiratory Cyncytial Virus IgG
 - Varicella Zoster Virus IgG
 - Anti-Epstein-Barr-Virus-Capsid-Antigen IgG
 - Anti-Enteroviruses IgG
 - Anti-Measles Virus IgG
 - Anti-Hanta-Virus Pool 1 "Eurasia" IgG
 - Haemophilus influenzae B IgG

Study shows that there is no cross reactions with other virus IgGs.

A teal-tinted photograph of a young child with curly hair and a healthcare professional in scrubs high-fiving each other. The child is on the left, and the professional is on the right. The background is a blurred clinical setting.

Contact us.

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