



## User's Manual

# Anti-Norovirus GII.4 Virus ELISA Kit



DEIANS088



96T



This product is for research use only and is not intended for diagnostic use.

For illustrative purposes only. To perform the assay the instructions for use provided with the kit have to be used.

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### Creative Diagnostics

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## PRODUCT INFORMATION

### Intended Use

The anti-Norovirus GII.4 ELISA Kit is a sensitive indirect ELISA for the measurement of IgG, IgM, or IgA antibodies in serum or plasma to Norovirus.

### General Description

Noroviruses are a genetically diverse group of single-stranded RNA, non-enveloped viruses in the Caliciviridae family. The viruses are transmitted by fecally contaminated food or water, by person-to-person contact, and via aerosolization of the virus and subsequent contamination of surfaces. Noroviruses are the most common cause of viral gastroenteritis in humans. Norovirus affects people of all ages. The genus name Norovirus is derived from Norwalk virus, which causes approximately 90% of epidemic nonbacterial outbreaks of gastroenteritis around the world, and may be responsible for 50% of all foodborne outbreaks of gastroenteritis in the United States. Noroviruses contain a positive-sense RNA genome of approximately 7.5 kbp, encoding a major structural protein (VP1) of about 58–60 kDa and a minor capsid protein (VP2). The most variable region of the viral capsid is the P2 domain, which contains antigen-presenting sites and carbohydrate-receptor binding regions.

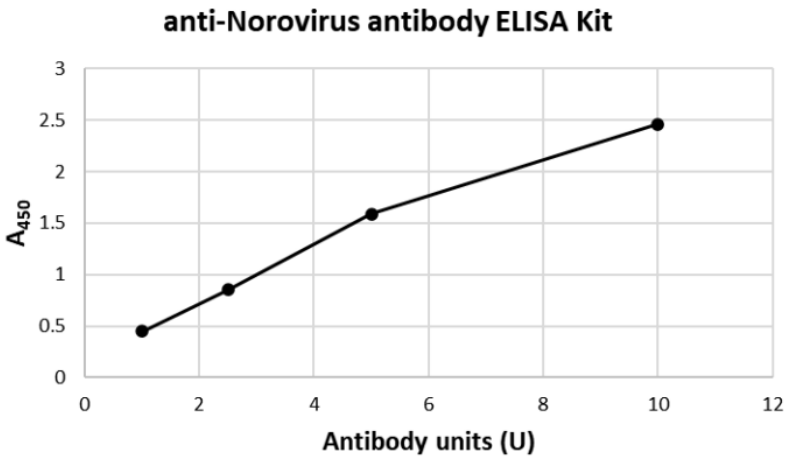
### Storage

Storage: 2-8°C (whole kit) Shelf life: 6-12 months

### Assay Procedure

Step 1. Pipette 100 µl of appropriately diluted samples and calibrators into wells and incubate for 1 hour at room temperature. Step 2. Wash the wells 3x with 300 µl of wash buffer for each well Step 3. Add 100 µl of anti-Species IgG, IgM, or IgA HRP conjugate to each well and incubate for 30 minutes at room temperature Step 4 Wash the wells 5x with 300 µl of wash buffer for each well Step 5. Add 100 µl of TMB Substrate solution to all wells, mix gently, and incubate at room temperature for 15 minutes. Step 6. Pipette 100 µl of stop solution into each well and mix gently. Measure at 450 nm w/ 630 nm as a reference filter if available.

### Typical Standard Curve



|                |               |      |      |      |      |
|----------------|---------------|------|------|------|------|
| Antibody Units | Diluent blank | 1    | 2.5  | 5    | 10   |
| A450           | 0.043         | 0.45 | 0.85 | 1.59 | 2.46 |

Performance Characteristics

Minimum recommended dilution Serum and Plasma: 1:100

Precision

Intra-assay: <15% Inter-assay: <15%