

Anti-Norovirus Capsid antibody, mouse monoclonal (NVGII-01), GII- specific

| | |
|--|---|
| Product code | 65-414 |
| Size | 100 µg |
| Storage | -20°C |
| Concentration | 1.0 mg/ml |
| Buffer | PBS- with 50% glycerol |
| Purity | Purified IgG fraction with protein A from hybridoma cell culture medium. |
| Immunogen | Synthetic peptide corresponding to the protruding 1 (P1) subdomain of Norovirus (genogroup II) capsid protein (amino acids 473 to 494) |
| Isotype | Mouse IgG1 |
| Reactivity | Norovirus capsid protein of genogroup II |
| Special notes | N/A |
| Application | <ol style="list-style-type: none"> 1. Western blotting (1/500~1/1,000) 2. ELISA (assay dependent) Other applications have not been tested. |
| Background | Noroviruses are responsible for most acute nonbacterial epidemic outbreak of gastroenteritis worldwide. Norovirus is comprised of two genogroups based on sequence differences. The major capsid protein, VP1, is comprised of protruding (P) domain. The P domain divided into the P1 subdomain (residues 226-278 and 406-520) and P2 subdomain (279-450). |
| Data Link | Uni-ProtKB Q96877 (Q96877_9CALI) GenBank accession number U70059 |
| Please note: All products are FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES. NOT FOR MILITARY USE. | |

Data Images: 65-414 Anti-Norovirus Capsid antibody, mouse monoclonal (NVGII-01), GII- specific

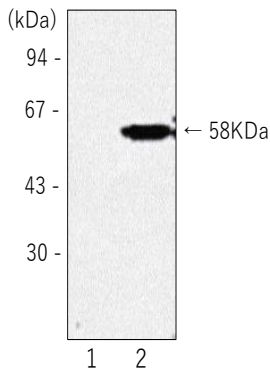


Fig.1. Detection of norovirus capsid protein by Western blotting using monoclonal antibody (NVGII-01).

1. Recombinant norovirus capsid protein of Genogroup I (Norwalk virus)
2. Recombinant norovirus capsid protein of Genogroup II (Snow mountain virus)

NVGII-01 reacts with norovirus capsid protein of genogroup II with molecular weight of approximately 58kD, but does not with genogroup I.

| GI | | | | GII | | | | | | | | | |
|------|------|------|------|-------|-------|-------|-------|-------|-------|-------|--------|--------|--|
| GI.1 | GI.4 | GI.6 | GI.8 | GII.1 | GII.2 | GII.3 | GII.4 | GII.6 | GII.7 | GII.9 | GII.12 | GII.17 | |
| - | - | - | - | + | + | + | + | + | + | + | + | + | |

Tabel 1. Detection of norovirus in fecal samples by using MAb (NVGII-01) as capture antibody in ELISA assay.

Monoclonal antibody (NVGII-01) as a capture antibody and rabbit anti-norovirus antiserum as a partnership antibody were used in a sandwich ELISA format. The assay was applied to clinical samples containing norovirus from several different genotypes. All 9 fecal samples of Genogroup II (GII) were positive, while all 4 fecal samples of Genogroup I (GI) were negative.

Reference: This antibody has not yet been used in publication.

Related products:

65-410 Anti-Norovirus Capsid antibody, mouse monoclonal (NVGC-01), GI and GII cross-reactive

65-412 Anti-Norovirus Capsid antibody, mouse monoclonal (NVGI-01), GI- specific