

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

Product code	65-410
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	Recombinant Norovirus (genogroup I) capsid protein (amino acid 453 to 472) corresponding to the protruding 1 (P1) subdomain expressed in <i>E. coli</i> .
Isotype	Mouse IgG1
Reactivity	Norovirus capsid proteins of both genogroup I and genogroup II.
Special notes	N/A
Application	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 positive strand RNA virus and comprised of two genogroups based on sequence differences. Expression of the genome using the recombinant baculovirus system results in the formation of virus-like particles (VLPs). The major capsid protein, VP1, is comprised of protruding (P) domain. The P domain is divided into the P1 subdomain (residues 226-278 and 406-520) and P2 subdomain (279-450).
Data Link	UniProtKB Q83884 (CAPSD NVN68) GenBank accession number M87661 , AY134748
Please note: All products are FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES. NOT FOR MILITARY USE.	

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

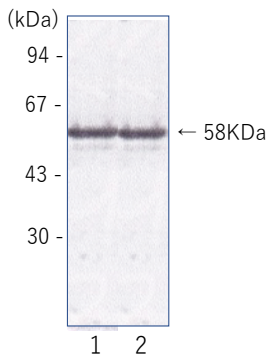


Fig.1. Detection of Norovirus capsid protein by Western blotting using monoclonal antibody (NVGC-01) .

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

NVGC-01 reacts with norovirus capsid protein of both genogroup I and genogroup II, with molecular weight of approximately 58kD.

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

Tabel 1. Detection of Norovirus in fecal samples by use of MAb (NVGC-01) as capture antibody in ELISA assay.

Monoclonal antibody (NVGC-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. Four fecal samples of Genogroup I (GI) and 7 fecal samples of Genogroup II (GII) were all positive in the antigen detection assay.

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

Related Products:

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

65-414 Anti-Norovirus Capsid antibody, mouse monoclonal (NVGII-01)