

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

65-410      100 µg

**Shipping and Storage:** Ship at 4C and store at -20C.

**Immunogen:** Recombinant Norovirus (genogroup I) capsid protein (amino acid 453 to 472) corresponding to the protruding 1 (P1) subdomain expressed in *E. coli*.

**Specific Reactivity:** Reacts with Norovirus capsid proteins of both genogroup I and genogroup II.

### Applications:

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).

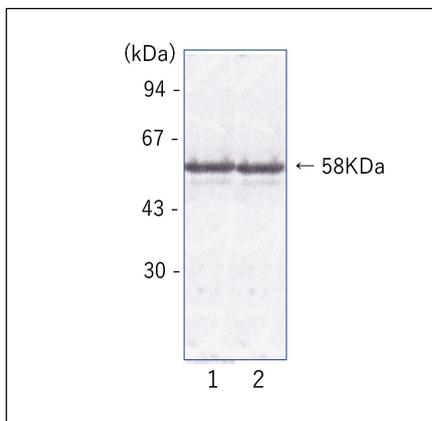
**Isotype:** mouse IgG1

**Product:** 1.0 mg/ml in PBS, 50% glycerol, filter sterilized.

**Purity:** IgG1, affinity-purified with Protein A

Data Link: UniProtKB [Q83884](#) (CAPSD NVN68)

GenBank accession number [M87661](#), [AY134748](#)



**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.

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

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

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:**

- 1) 65-412 Anti-Norovirus Capsid antibody, GI-specific, mouse monoclonal (NVGI-01)
- 2) 65-414 Ant-Norovirus Capsid antibody, GII-specific, mouse monoclonal (NVGII-01)