

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

65-412      100 µg

**Shipping and Storage:** Shipped at 4°C or -20°C, store at -20°C.

**Immunogen:** Recombinant Norovirus (genogroup I) capsid protein (amino acid 454 to 520) corresponding to the protruding 1 (P1) subdomain expressed in *Escherichia coli*.

**Form:** 1.0 mg/ml in PBS- with 50% glycerol, filter sterilized.

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

**Isotype:** mouse IgG1

**Reactivity:** Reacts with Norovirus capsid protein of genogroup I

### Applications:

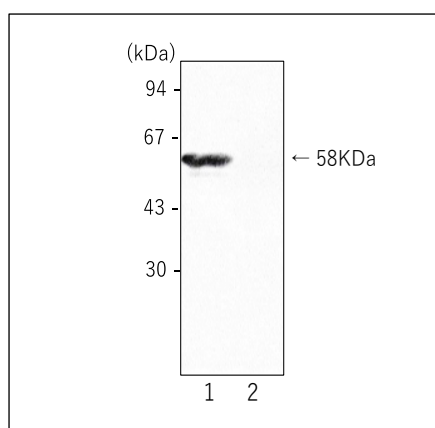
1. Western blotting (1/500~1/1,000 )
2. ELISA (assay dependent)

Other applications have not been tested.

**Background:** Noroviruses are responsible for most acute nonbacterial epidemic outbreak of gastroenteritis worldwide. Norovirus is 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 [Q83884](#) (CAPSD NVN68)

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



**Fig.1. Detection of Norovirus capsid protein by Western blotting with monoclonal antibody (NVGI-01) .**

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

NVGI-01 reacts with Norovirus capsid protein of genogroup I with molecular weight of approximately 58 kD, but does not with genogroup II,

**Tabel 1. Detection of Norovirus in fecal samples by using MAb (NVGI-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 (NVGI-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 four fecal samples of Genogroup I (GI) were positive, while all 7 fecal samples of Genogroup II (GII) were negative.

**Reference:** This antibody has not yet used in publication

**Related products:**

- 1) 65-410 Ant-Norovirus Capsid antibody, GI and GII cross-reactive, mouse monoclonal (NVGC-01)
- 2) 65-414 Anti-Norovirus Capsid antibody, GII-specific, mouse monoclonal (NVGII-01)