

Anti- TDH / TRH Toxin (*Vibrio parahaemolyticus*) antibody, mouse monoclonal (vp-01)

Product code	64-013
Size	100 µg
Storage	-20°C
Concentration	0.5 mg/ml
Buffer	PBS ⁻ with 50% glycerol
Purity	Purified IgG fraction with protein A from hybridoma cell culture medium
Immunogen	Culture supernatant of <i>V. parahemolyticus</i>
Isotype	Mouse IgG1
Reactivity	<i>V. parahemolyticus</i> TDH and TRH toxins
Special notes	N/A
Application	1. Western blotting (1/500~1/1,000) 2. ELISA (assay dependent) Other applications have not been tested.
Background	Many <i>Vibrio parahaemolyticus</i> strains isolated as a cause of food poisoning, produce toxin called hemolysin, and this is the main cause of illness. Two kinds of hemolysins, T hermo-resistant D irect H emolysin (TDH) and T DH R elated H emolysin (TRH), are known. TDH is the heat labile toxin protein of molecular weight 21.3 kDa (189 aa). Homology of TRH (21.1 kDa, 189 aa) with TDH is about 60%, and shows partial antigenic similarities.
Data Link	UniProtKB P19249 (Thermostable direct hemolysin1) UniProtKB Q769J9 (TDH related hemolysin)
Please note: All products are FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES. NOT FOR MILITARY USE.	

Data Images: 64-013 Anti- TDH / TRH Toxin (*Vibrio parahaemolyticus*) antibody, mouse monoclonal (vp-01)

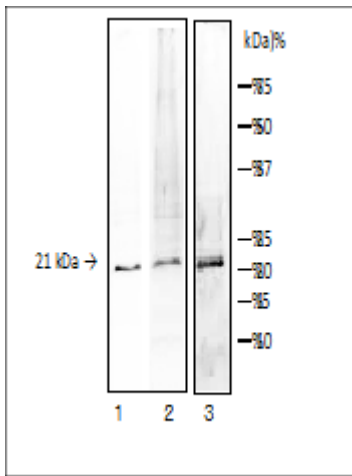


Fig.1. Detection of *V. parahaemolyticus* TDH and TRH by Western blotting with MAb (vp-01)

1. Culture medium of *V. parahaemolyticus* (trh⁺)
2. Culture medium of *V. parahaemolyticus* (tdh⁺)
3. Culture medium of *V. parahaemolyticus* (trh⁺)

MAb (vp-01) was used at 1/1,000 dilution in lanes 1 and 2.

Polyclonal antiTRH antibody (BioAcademia 64-015) was used at 1/1,000 dilution in lane 3.

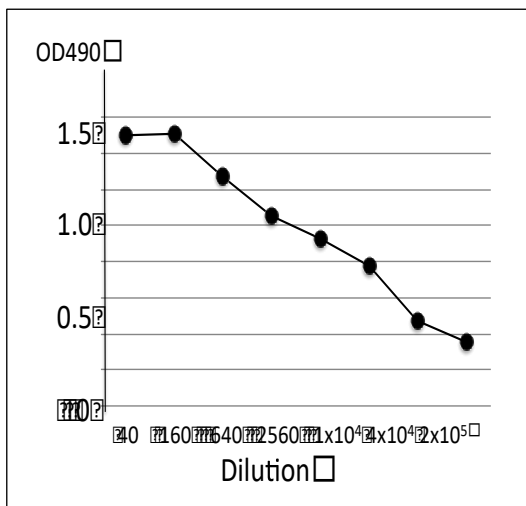


Fig.2. Titration of antibody reactivity of MAb (vp-1) by indirect ELISA, using culture medium of *V. parahaemolyticus* trh⁺

The wells of plate were coated with culture medium of *V. parahaemophilus* trh⁺ (100 µl, 1 µg/ml). After blocking with 5% skim milk, 100 µl of antibody at the indicated dilution was added to the each well. HRP-conjugate goat anti-mouse IgG (100µl, x2000 dilution) was added. Color was developed with orthophenylenediamine as substrate. Optical densities (OD) measured at 490nm.

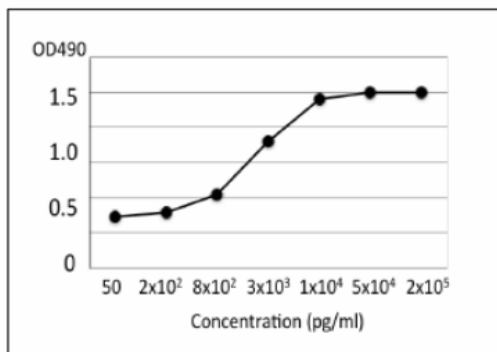


Fig.3. Indirect ELISA of TDH in extract of *V. parahaemolyticus* trh⁺ with MAb (vp-01)

ELISA plate was coated with indicated amounts of the extract of *V. parahaemolyticus* trh⁺. MAb (vp-01) was used at 1/500 dilution. ELISA was performed as in Fig.2.

	ELISA	WB
<i>Vibrio parahaemolyticus</i> (NBRC12711)	+	21K
Other 3 isolated strains	+	21K
<i>Salmonella</i> Enteritidis	-	-
<i>E. coli</i> 0157:H7	-	
<i>Staphylococcus aureus</i>	-	
<i>Bacillus cereus</i>	-	
Partially purified TDH	+	

TDH:Thermostable direct hemolysin

Table 1. Reactivity of MAb (vp-01) with various food poisoning bacteria.

Reference: There has been no publication using this antibody.

Please let us know when your research using this antibody is published. We will offer one vial of our antibody as compliment.