

Anti-LT Subunit B (*E.coli*) antibody, mouse monoclonal (ec-01)

Product code	64-023
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	Crude extract of <i>Escherichia coli</i> (ETEC LT ⁺) cells
Isotype	Mouse IgG2ak
Reactivity	subunit B of <i>E. coli</i> LT and <i>V. Cholera</i> CT.
Special notes	N/A
Application	<p>1. Western blotting (1/500~1/5000)</p> <p>2. ELISA (assay dependent)</p> <p>This antibody is useful for detecting food poisoning Enterotoxigenic <i>E. coli</i> (ETEC)</p>
Background	<p>Pathogenic <i>Escherichia coli</i> is one of the major causative agents of food poisoning. One group of them, enterotoxigenic <i>E. coli</i> (ETEC) produces some toxins. Heat labile enterotoxin (LT) produced by ETEC is similar to cholera toxin (CT). The identity of the amino acid sequences of LT and CT is about 80% and both toxins are consisted of one subunit A and five subunit B. LT continuously activates adenylate cyclase and elevated level of cAMP inhibits absorption of Na⁺ by intestinal villi cells, and stimulates secretion of Cl⁻ by villi and crypt cells, thus causing diarrhea. Subunit A possesses signal peptide of the amino acids 1-18, and the mature form consists of 19-258 amino acids (MW: 28.8 kDa). Subunit B has signal peptide of 1-21, and the mature form consists of 22-124 amino acids (MW: 11.8 kDa). The holotoxin MW is 86.4 kDa.</p>
Data Link	UniProtKB: P0CK94 (Heat-labile enterotoxin B chain)
Please note: All products are FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES. NOT FOR MILITARY USE.	

Data Images: 64-023 LT Subunit B (*E.coli*) antibody, mouse monoclonal (ec-01)

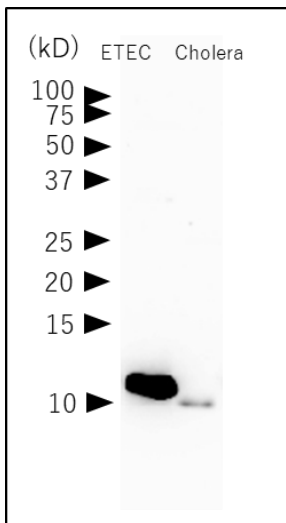


Fig.1. Detection of LT in crude extract of *E. coli* ETEC strain and Cholera toxin (#01-511) by Western blot.

The anti- LT toxin subunit B antibody was used at 1/1,000 dilution.

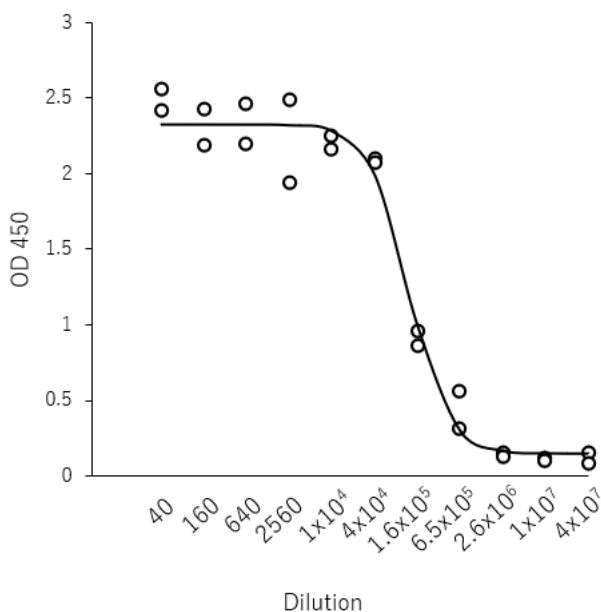


Fig.2. Titration of antibody reactivity of MAb by indirect ELISA using crude extract of ETEC cells.

The wells of plate were coated with crude extract of *E. coli*. After blocking with 5% skim milk, 100 µl of antibody at the indicated dilutions was added to the each well. HRP-conjugated goat anti-mouse IgG (100µl, x 2000 dilution) was added. Color was developed with orthophenylenediamine as substrate. Optical densities (OD) measured at 450nm.

Reference: There has been no publication using this antibody.

Related Product:

64-020 anti-LT (*E.coli*)antibody, rabbit serum