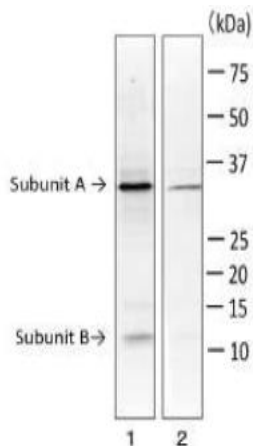


## Anti-LT (*E.coli*) antibody, rabbit serum

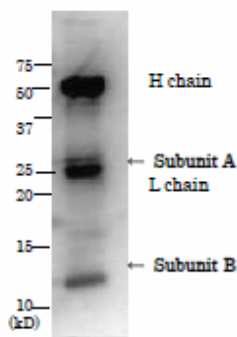
|  |  |
|--|--|
| <b>Product code</b>  | 64-020   |
| <b>Size</b>  | 100 µl   |
| <b>Storage</b>   | -20°C  |
| <b>Concentration</b>   | N/A  |
| <b>Buffer</b>  | 0.09% sodium azide   |
| <b>Purity</b>  | Rabbit antiserum   |
| <b>Immunogen</b>   | Initial immunization with LT toxoid and booster with LT toxin.   |
| <b>Isotype</b>   | Rabbit IgG   |
| <b>Reactivity</b>  | LT and cholera toxin.  |
| <b>Special notes</b>   | N/A  |
| <b>Application</b>   | 1. Western blotting (2,000~10,000 time dilution) (figure 1)<br>2. Immunoprecipitation<br>Other applications have not been tested.  |
| <b>Background</b>  | Heat labile enterotoxin (LT) is produced by Enterotoxigenic <i>E. coli</i> and is similar to cholera toxin (CT). The identity of the amino acid sequences of LT and CT is about 80% and both toxins consist of one subunit A and five subunit B. LT continuously activates adenylate cyclase and elevated level of cAMP inhibits absorption of Na <sup>+</sup> by intestinal villi cells, and stimulates secretion of Cl <sup>-</sup> by villi and crypt cells, thus causing diarrhea. It works as a potent mucosal adjuvant and is considered to be used as adjuvant with vaccines. Subunit A possesses signal peptide of the amino acids 1-18, and the mature form consists of 19-258 amino acids. Subunit B has signal peptide of 1-21, and the mature form consists of 22-124 amino acids. |
| <b>Data Link</b>   | UniProtKB <a href="#">P06717</a> <i>E. coli</i> LT-A<br>UniProtKB <a href="#">P32890</a> <i>E. coli</i> LT-B   |
| Please note: All products are FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES. NOT FOR MILITARY USE. |  |

**Data Images:** 64-020 Anti-LT (*E.coli*) antibody, rabbit serum



**Fig.1. Western blot of LT toxin in extract of *E. coli* ETEC strain**

1. Culture medium of *E. coli* (ETEC, LT+) blotted with this antibody at 1/4,000 dilution. As second antibody, HRP conjugated goat anti-rabbit IgG was used at 1/20,000 dilution.
2. Culture medium of *E. coli* (ETEC, LT+) blotted with monoclonal antibody to subunit A of LT (BioAcademia 64-022) at 1/1,000 dilution. As second antibody, HRP conjugated goat anti-mouse IgG was used at 1/20,000 dilution.



**Fig. 2 Immunoprecipitation of LT from culture medium of ETEC by using anti-LT antibody.**

The antibody was used at 1/200 dilution for immunoprecipitation and analyzed by western blot. H chain and L chain indicate heavy chain and light chain of IgG, respectively.