

Anti-Diphtheria Toxin antibody, rabbit polyclonal

Product code	64-011
Size	100 µg
Storage	-20°C
Concentration	1.0 mg/ml
Buffer	PBS- with 50% glycerol
Purity	Purified IgG fraction with protein A from rabbit antiserum.
Immunogen	Purified nontoxic mutant Diphtheria toxin CRM197 (Ref1, Product #01-515)
Isotype	Rabbit IgG
Reactivity	Diphtheria toxin as well as its CRM197 mutant toxin
Special notes	N/A
Application	<ol style="list-style-type: none"> 1. Western blotting (1/2,000 dilution,). 2. ELISA (1/2,000~1/7,000 dilution. Could detect 1 ng or less of the toxin) 3. Immunoprecipitation (1/200~1/1,000 dilution, depending on assay) 4. Dot blotting (1/1,000 dilution. Could detect 1 ng or less of the toxin)
Background	<p>Diphtheria toxin(535 aa,58k Da),is an exotoxin secreted as a proenzyme by <i>Corynebacterium diphtheriae</i>, the pathogen bacterium that causes diphtheria. The toxin genes encoded by a bacteriophage. The proenzyme undergoes proteolytic nicking and reduction of disulfide bond, giving rise to subunit A (21kDa) and B (37kDa) .Subunit B (C-terminal) recognizes cellular receptor, HB-EGF receptor, and subunit A (N-terminal) catalyzes the ADP-ribosylation of eukaryotic E longation factor-2 (eEF2) ,in activating this protein.</p>
Data Link	UniProtKB Diphtheria
Please note: All products are FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES. NOT FOR MILITARY USE.	

Data Images: 64-011 Anti-Diphtheria Toxin antibody, rabbit polyclonal

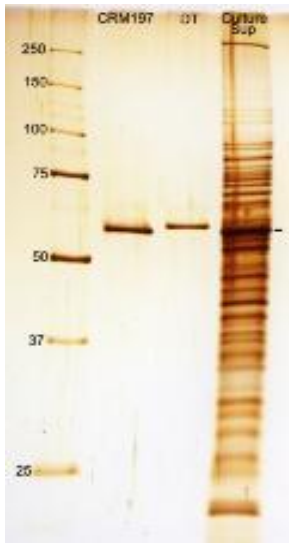


Fig.1 SDS-PAGE analysis of culture medium of *Corynebacterium Diphtheria*.

Lane1: Protein size markers (kDa). Lane2: Purified Diphtheria CRM197 mutan tprotein. Lane3: Purified Wild-type Diphtheria toxin. Lane4: Culture medium of *Corynebacterium Diphtheria*. Silver-staining

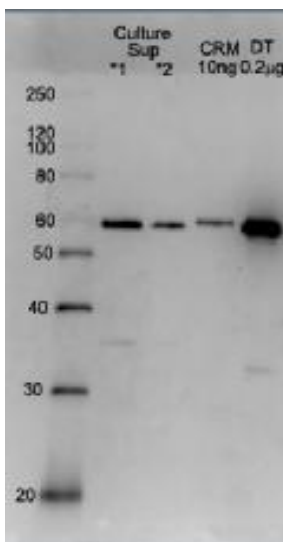


Fig.2 Western blotting of culture medium of *Corynebacterium Diphtheria*.

Lane1:Protein size markers (kDa).
 Lane2 (*1): Crude culture medium of *Corynebacterium Diphtheria*.
 Lane3 (*2):The two-fold diluted culture medium.
 Lane4 :Purified CRM197 (10 ng).
 Lane5: Purified Diphtheria toxin (200ng).
 Western blotting with this antibody at 1/2000 dilution.

References:

1. Uchida T. et al. "Diphtheria toxin and related proteins.
2. Reconstitution of hybrid "diphtheria toxin" from nontoxic mutant proteins." *J. Biol. Chem.* 248:3851-3854 (1973) [PMID:4196586](#)
3. Pappenheimer A. "Diphtheriatoxin." *Annu Rev Biochem* 46: 69-94 (1977) [PMID:20040](#)

Related Products

01-515 Diphtheria toxin mutant CRM197, active but nontoxic

01-517 Diphtheria toxin, active