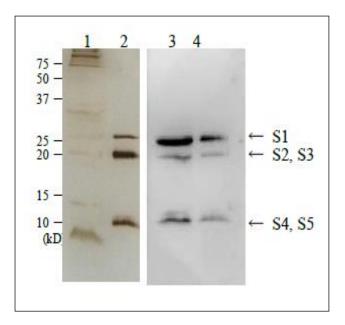


## Anti-Pertussis Toxin antibody, rabbit polyclonal

Product code	64-031
Size	100 µg
Storage	-20°C
Concentration	2.0 mg/ml
Buffer	PBS- with 50% glycerol
Purity	Purified IgG fraction with protein A from rabbit antiserum.
Immunogen	Immunization was Initiated with toxoid and boosted with native toxin (BioAcademia 01-503)
Isotype	Rabbit IgG
Reactivity	Bordeterra pertussis strain Tohama
Special notes	N/A
Application Background	<ol> <li>Western blotting (1/2,000~1/10,000 dilution)</li> <li>ELISA (1/10,000~1/20,000 dilution)</li> <li>Dot blotting (1/2,000~1/10,000 dilution)</li> <li>Immunoprecipitation (1/200~1/500 dilution)</li> <li>Neutralising (Assay dependent)</li> <li>Other applications have not been tested.</li> <li>Perrtussis toxin (PT) is a protein-based AB5-type exotoxin produced by</li> </ol>
	<i>Bordeterra pertussis.</i> PT catalyzes the ADP-ribosylation of the α subunits of the heterotrimeric guanine nucleotide regulatory proteins Gi, Go, and Gt and prevents intracellular signal transduction involving the G proteins. PT consists of one moplecule of each S1 (26 kDa), S2 (22 kDa), S3 (22 kDa), S5 (12 kDa) and two molecule of S4 (12 kDa). This product was highly purified (>90% pure) from <i>Bordetella pertussis</i> strain Tohama by the method of Skelton & Wong <sup>1</sup> ). Cytotoxicity of the PT was confirmed by morphological alteration of CHO cells after treatment with 0.1 ng/ml of PT (see the Figure below).
Data Link	UniProtKB <u>Pertussis toxin subunit1, subunit2, subunit3, subunit4, subunit5</u>
Please note: All products are FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES. NOT FOR MILITARY USE.	



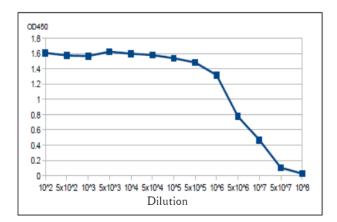
Data Images: 64-031 Anti-Pertussis Toxin antibody, rabbit polyclonal



# Fig.1. Detection of perussis toxin in culture medium of Bordetera pertussis strain Tohama by Western blotting using anti-perussis toxin antibody.

- 1. Culture medium of Bordetera pertussis. SDS-PAGE, silver-stained
- 2. Purified pertussis toxin (200ng). SDS-PAGE, silver-stained
- 3. Western blot of culture medium of Bordetera pertussis as in 1.
- 4. Western blot of purified pertussis toxin (10 ng)

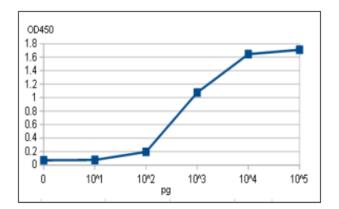
The toxin costs of five subunits as indicated by S1 to S5.



#### Fig.2. Titration of antibody reactivity of anti-Pertussis antiserum by direct ELISA

Plate was coated with 100  $\mu$  g of pertussis toxin per well and 100  $\mu$  l of the antiserum at the indicated dilution was added to each well and incubated. After washing, goat anti-rabbit-IgG conjugated with HRP was added as 2<sup>nd</sup> antibody. Color was developed with TMB as substrate.





### Fig.3. Titration of pertussis toxin by direct ELISA using anti-pertussis toxin antiserum

ELISA plate is coated with indicated amounts of pertussis toxin per well. Antiserum was used at 1/12,500 dilution. ELISA was performed as in Fig.2. Dynamic range was 100 pg to 10 ng under these conditions.

#### References

1. Alouf JE & Popoff MR (Ed.) The comprehensive Sourcebook of Bacterial Protein Toxins 3rd Ed. Academic Press (2006)