

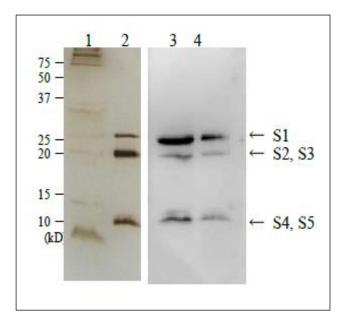
Anti-Pertussis	Toxin	antibody.	rabbit serum
THILL L CLUGBBIB	TOVIII	anouv,	rabbit boram

Product code	64-030	
Size	100 µl	
Storage	Store $4^{\circ}$ C for short term For long term storage store at -20°C.	
	Aliquot to avoid repeated freezing and thawing.	
Concentration	N/A	
Buffer	0.09% sodium azide	
Purity	Rabbit antiserum	
Immunogen	Immunization was Initiated with toxoid and boosted with native toxin	
	(BioAcademia 01-503)	
Isotype	Rabbit IgG	
Reactivity	Bordetera pertussis strain Tohama	
Special notes	N/A	
Application	1. Western blotting (1/2,000~1/10,000 dilution)	
	2. ELISA (1/10,000~1/20,000 dilution)	
	3. Dot blotting (1/2,000~1/10,000 dilution)	
	4. Immunoprecipitation (1/200~1/500 dilution)	
	5. Neutralising (Assay dependent)	
	Other applications have not been tested.	
Background	Perrtussis toxin (PT) is a protein-based AB5-type exotoxin produced by	
	Bordeterra pertussis. PT catalyzes the ADP-ribosylation of the a 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).	
	ono constation treatment with 0.1 ng/m of 1 1 (see the Figure below).	
Data Link	UniProtKB Pertussis toxin subunit1, subunit2, subunit3,	
	<u>subunit4, subunit5</u>	
Please note: All products are FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC		
PROCEDURES. NO	T FOR MILITARY USE.	



2/3

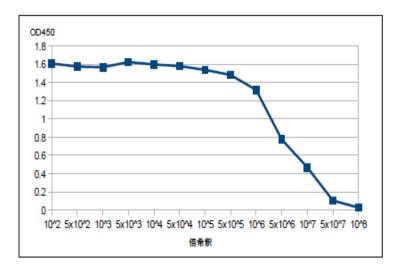
## Data Images: 64-030 Anti-Pertussis Toxin antibody, rabbit serum



## 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 (200 ng). 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 consists of five subunits as indicated by S1 to S5.

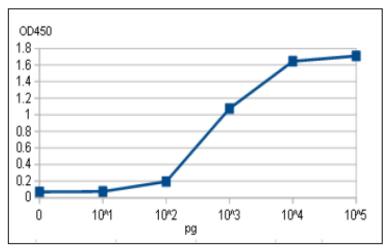


## Fig.2. Titration of antibody reactivity of anti-Pertussis antiserum by direct ELISA

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.

BioAcademia,Inc. Tel. 81-6-6877-2335 Fax. 81-6-6877-2336 info@bioacademia.co.jp https://www.bioacademia.co.jp/en/





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

Related Products: #64-031 Anti-Pertussis Toxin antibody, rabbit polyclonal