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## Anti-flagellin of *Burkholderia pseudomallei*, Rabbit-Polyclonal Antibody

**Catalog No.** GB-10354 **Quantity:** 250  $\mu$ l **Antigen species:** *Burkholderia pseudomallei*  
**Reactivity:** *Burkholderia pseudomallei* **Applications tested:** ELISA  
**Host species:** rabbit **Type:** polyclonal antibody **Form:** lyophilized antiserum

### Target description

Melioidosis is a potentially fatal disease caused by the bacterium *Burkholderia pseudomallei*. Individuals with subclinical melioidosis have no apparent clinical signs or symptoms, and are identified only by positive serology. It has been reported that highly specific antibody titers against *B. pseudomallei* in populations correlate with the incidence of melioidosis and can indicate the prevalence of inapparent infection. Moreover, recombinant truncated flagellin of *Burkholderia pseudomallei* can be used as a molecular probe for diagnosis of melioidosis.

### Antigen

This polyclonal antibody was raised by immunizing rabbit with synthetic peptide containing amino acids on the flagellin C-terminal domain of *Burkholderia pseudomallei*.

### Application

The antibody specificity was assayed by ELISA with the synthetic peptide antigen. The antibody titer is 100K for ELISA. It has not been tested in the other applications. However, for the first testing, we recommend 1/5,000 dilution for ELISA, 1/1000 dilution for Western blot analysis (WB) of recombinant protein, 1/400 dilution for tissue extracts or cell lysates, 1/100 dilution for immunohistochemistry (IHC) staining on frozen cryosections or paraffin embedded sections.

Ab dilution	Pre-bleed	Anti-serum
1:1K	0.043	1.913
1:10K	0.042	0.824
1:100K	0.039	0.079
Titer		~100 K

### ELISA protocol

Antigen is coated on EIA strips at 1  $\mu$ g per well. Add 200  $\mu$ l of blocking buffer and then wash wells with PBST buffer. Antiserum GB-10354 is diluted in series as  $10^3$ ~ $10^5$  folds and added in separate wells. Incubate antibody for 1hr. Wash unbound antibodies and add anti-rabbit IgG-HRP conjugate. Wash the plates and add substrate to develop color for 5 min. Read absorbance (ABS) at 405 nm. Amount of color is directly proportional to the amount of antibodies. Antibody is positive at >2 folds of ABS of control/Pre-Immune serum.

### Storage

It is supplied as lyophilized antiserum of polyclonal antibody. Rehydrate the powder with 250  $\mu$ l sterile water will restore to the original condition. Store at 4°C for short-term application. For long-term storage, aliquot and store at -20°C.

### References

1. Chen YS, Chen SC, Wu TR, Kao CM, Chen YL. Seroprevalence of Anti-Flagellin Antibody against *Burkholderia pseudomallei* in Taiwan. *Jpn J Infect Dis.* 2004 Oct;57(5):224-5.
2. Christenson B, Fuxench Z, Morales JA, Suarez-Villamil RA, Souchet LM. Severe community-acquired pneumonia and sepsis caused by *Burkholderia pseudomallei* associated with flooding in Puerto Rico. *Bol Asoc Med P R.* 2003 Nov-Dec;95(6):17-20.
3. Chan SW, Ong GI, Nathan S. Neutralizing chimeric mouse-human antibodies against *Burkholderia pseudomallei* protease: expression, purification and characterization. *J Biochem Mol Biol.* 2004 Sep 30;37(5):556-64.

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