

Product datasheet

Anti-Bacillus anthracis lethal factor antibody ab13807

1 Image

Overview

| | |
|----------------------------|---|
| Product name | Anti-Bacillus anthracis lethal factor antibody |
| Description | Rabbit polyclonal to Bacillus anthracis lethal factor |
| Specificity | The antibody has been tested against recombinant protein only (0.1 ug recombinant protein was loaded per lane). |
| Tested applications | Suitable for: WB |
| Species reactivity | Anthrax LF (Lethal Factor) produced by Bacillus anthracis |
| Immunogen | Synthetic peptide corresponding to amino acids 779-792 of Anthrax LF |
| Positive control | 0.1 ug recombinant protein |

Properties

| | |
|-----------------------------|--|
| Form | Liquid |
| Storage instructions | Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C or -80°C. Avoid freeze / thaw cycle. |
| Storage buffer | Preservative: 0.05% Sodium Azide Constituents: 0.2% gelatin, PBS |
| Purity | Protein G purified |
| Clonality | Polyclonal |
| Isotype | IgG |

Applications

Our [Abpromise guarantee](#) covers the use of **ab13807** in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

| Application | Abreviews | Notes |
|-------------|-----------|---|
| WB | | 1/1000. Detects a band of approximately 90 kDa. |

Target

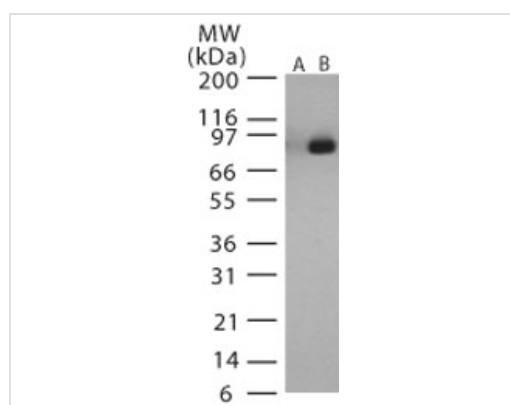
Relevance

The protease enzyme Lethal Factor (LF) is one of the three proteins (LF, EF & PA) composing the anthrax toxin produced by *Bacillus anthracis*, a bacteria which can infect many mammalian species and that may be fatal. LF is not toxic by itself, but when associated with Protective Antigen (PA), can then gain entry to cells. Once inside the cell, LF then cleaves the N terminal of most dual specificity mitogen activated protein kinase kinases (MAPKKs or MAP2Ks) (except for MAP2K5). Cleavage invariably occurs within the N terminal proline rich region preceding the kinase domain, thus disrupting a sequence involved in directing specific protein protein interactions necessary for the assembly of signaling complexes. There may be other cytosolic targets of LF involved in cytotoxicity. The proteasome may mediate a toxic process initiated by LF in the cell cytosol involving degradation of unidentified molecules that are essential for macrophage homeostasis. This is an early step in LF intoxication, but it is downstream of the cleavage by LF of MEK1 or other putative substrates.

Cellular localization

secreted

Images



Western blot - Anti-Bacillus anthracis lethal factor antibody (ab13807)

Western blot analysis of Anthrax LF in recombinant protein using ab13807 (lane B) at 1:1000 dilution. Lane A shows the pre-bleed.

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