

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
Host species	Rabbit
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

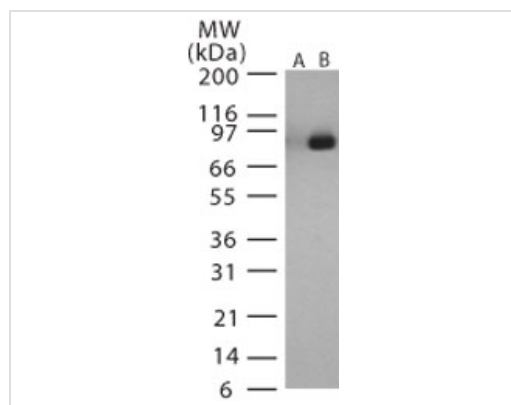
Relevance

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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