

## Product datasheet

# Recombinant Yersinia pestis F1 antigen protein (His tag) ab241388

[3 Images](#)

### Description

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<b>Product name</b>	Recombinant Yersinia pestis F1 antigen protein (His tag)
<b>Purity</b>	> 90 % SDS-PAGE.
<b>Expression system</b>	Yeast
<b>Accession</b>	<b><u>P26948</u></b>
<b>Protein length</b>	Full length protein
<b>Animal free</b>	No
<b>Nature</b>	Recombinant
<b>Species</b>	Yersinia pestis
<b>Sequence</b>	ADLTASTTATATLVEPARITLTYKEGAPITIMDNGNIDTELLV GTLTLGG YKTGTTSTSVNFTDAAGDPMYLTFTSQDGNNHQFTTKVIG KDSRDFDISP KVNGENLVGDDVVLATGSQDFFVRSIGSKGGKLAAGKYT DAVTVTVSNQ
<b>Predicted molecular weight</b>	18 kDa including tags
<b>Amino acids</b>	22 to 170
<b>Tags</b>	His tag N-Terminus
<b>Additional sequence information</b>	This product is the mature full length protein from aa 22 to 170. The signal peptide is not included.

### Specifications

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Our **Abpromise guarantee** covers the use of **ab241388** in the following tested applications.

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

<b>Applications</b>	SDS-PAGE Mass Spectrometry
<b>Mass spectrometry</b>	LC-MS/MS
<b>Form</b>	Liquid

## Preparation and Storage

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### Stability and Storage

Shipped at 4°C. Store at -20°C or -80°C. Avoid freeze / thaw cycle.

pH: 7.2

Constituents: Tris buffer, 50% Glycerol (glycerin, glycerine)

## General Info

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### Relevance

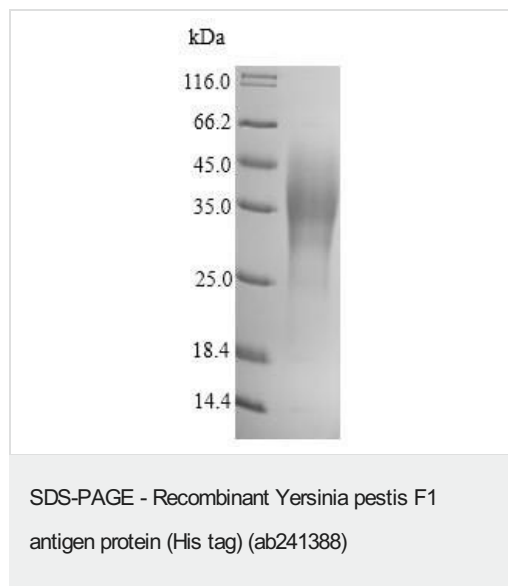
*Yersinia pestis* is a gram-negative coccobacillus belonging to the Enterobacteriaceae. *Yersinia pestis* is primarily a rodent pathogen, with humans being an accidental host when bitten by an infected rat flea. The flea draws viable *Y. pestis* organisms into its intestinal tract. Some *Y. pestis* in the flea are then regurgitated when the flea gets its blood meal thus transferring the infection to a new host. While growing in the flea, *Y. pestis* loses its capsular layer, which is made of the F1 (or fraction 1) capsule antigen. Most of the organisms are phagocytosed and killed by the polymorphonuclear leukocytes in the human host. A few bacilli are taken up by tissue macrophages. The macrophages are unable to kill *Y. pestis* and provide a protected environment for the organisms to synthesize their virulence factors.

### Cellular localization

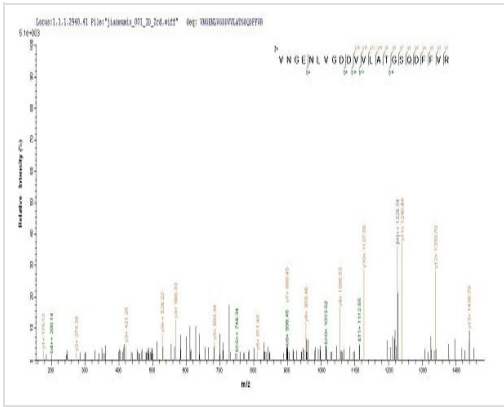
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## Images

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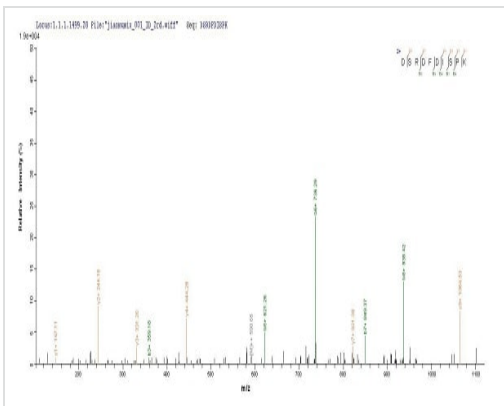


(Tris-Glycine gel) Discontinuous SDS-PAGE (reduced) analysis with 5% enrichment gel and 15% separation gel of ab241388.



Mass Spectrometry - Recombinant Yersinia pestis  
F1 antigen protein (His tag) (ab241388)

Based on the SEQUEST from database of Yeast host and target protein, the LC-MS/MS analysis result of ab241388 could indicate that this peptide derived from Yeast-expressed Yersinia pestis F1 antigen protein.



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**Please note:** All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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- We provide support in Chinese, English, French, German, Japanese and Spanish
- Extensive multi-media technical resources to help you
- We investigate all quality concerns to ensure our products perform to the highest standards

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