



# Anti-Y. pestis F1 Antigen Monoclonal antibody, Clone ZPF20 (DMAB4519)

This product is for research use only and is not intended for diagnostic use.

## PRODUCT INFORMATION

<b>Specificity</b>	Reacts with capsule-bearing strains of Y. pestis only. Does not cross-react with Y. pseudotuberculosis and Y. enterocolitica.
<b>Target</b>	Y. pestis F1 Antigen
<b>Immunogen</b>	Purified F1 antigen from Yersinia pestis vaccine strain EB
<b>Isotype</b>	IgG1
<b>Source/Host</b>	Mouse
<b>Species Reactivity</b>	Y. pestis
<b>Clone</b>	ZPF20
<b>Affinity Constant</b>	Not determined
<b>Purification</b>	95% pure (SDS-PAGE). Protein G chromatography
<b>Conjugate</b>	Biotin
<b>Applications</b>	Suitable for use in ELISA, Western blot and immunohistochemistry. Each laboratory should determine an optimum working titer for use in its particular application. Other applications have not been tested but use in such assays should not necessarily be excluded.
<b>Concentration</b>	6.8mg/ml (OD280nm E0.1%= 1.4)
<b>Size</b>	1 mg
<b>Buffer</b>	PBS, pH 7.4

<b>Preservative</b>	0.1% Sodium Azide
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<b>Storage</b>	Store at 2-8°C.
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## BACKGROUND

### Introduction

[Yersinia pestis\(formerly Pasteurella pestis\) is a Gram-negative rod-shaped bacterium. It is a facultative anaerobe that can infect humans and other animals. Human Y. pestis infection takes three main forms: pneumonic, septicemic, and the notorious bubonic plagues. All three forms are widely believed to have been responsible for a number of high-mortality epidemics throughout human history, including the Plague of Justinian in 542 and the Black Death that accounted for the death of at least one-third of the European population between 1347 and 1353. It has now been shown conclusively that these plagues originated in rodent populations in China. More recently, Y.pestis has gained attention as a possible biological warfare agent and the CDC has classified it as a category A pathogen requiring preparation for a possible terrorist attack.](#)

### Keywords

Caf1; F1 capsule antigen; Yersinia pestis F1 Antigen EB Strain; Yersinia pestis F1 Antigen; Bacteria; ubacteria; Proteobacteria; Gammaproteobacteria; Yersinia; Y. pestis; Yersinia pestis