

Product datasheet

Native Protein A (HRP) ab7456

9 References

Overview

Product name	Native Protein A (HRP)
Protein length	Full length protein

Description

Nature	Native
Source	Native
Conjugation	HRP

Specifications

Our [Abpromise guarantee](#) covers the use of **ab7456** in the following tested applications.

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

Applications	<ul style="list-style-type: none"> Western blot Dot blot ELISA Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) Immunohistochemistry (Frozen sections) Immunomicroscopy
Form	Liquid
Additional notes	Molecular Weight (protein A): 42,000 daltons Extinction Coefficient: 0.1% at 280 nm is 0.14 (E ^{0.1%} of 0.14)

Preparation and Storage

Stability and Storage	<ul style="list-style-type: none"> Shipped at 4°C. Store at +4°C. pH: 7.20 Preservative: 0.01% Gentamicin sulphate Constituents: 0.42% Potassium phosphate, 0.87% Sodium chloride, 1.5% BSA
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General Info

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Relevance	Protein A is a surface protein of <i>S.aureus</i> which binds IgG molecules by their Fc region. In serum, the bacteria will bind IgG molecules in the wrong orientation on their surface which hinders opsonization and phagocytosis. Mutants of <i>S. aureus</i> lacking protein A are more efficiently phagocytosed in vitro, and mutants in infection models have diminished virulence. Due to its affinity for the Fc region of many mammalian immunoglobulins, protein A is considered a universal reagent in biochemistry and immunology.
Cellular localization	Secreted; cell wall.

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