

Product datasheet

Natural Protein A (HRP) ab7456

7 References

Overview

Product name	Natural 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	<p>Shipped at 4°C. Store at +4°C.</p> <p>pH: 7.20</p> <p>Preservative: 0.01% Gentamicin sulphate</p> <p>Constituents: 0.42% Potassium phosphate, 0.87% Sodium chloride, 1.5% BSA</p>
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Relevance

Protein A is a surface protein of S.aureus 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 S. aureus 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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