

Native Staphylococcus aureus Protein A (HRP) ab7456

17 References

Description

Product name	Native Staphylococcus aureus Protein A (HRP)
Purity	> 95 % SDS-PAGE. Chromatographically pure, a single band by SDS-PAGE.
Expression system	Native
Accession	<u>P38507</u>
Protein length	Full length protein
Animal free	No
Nature	Native
Species	Staphylococcus aureus
Predicted molecular weight	56 kDa
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	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	Shipped at 4°C. Store at +4°C.
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Preservative: 0.01% Gentamicin sulphate

Constituents: 0.42% Potassium phosphate, 0.87% Sodium chloride, 1.5% BSA

General Info

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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