

Product datasheet

Native Staphylococcus aureus Protein A (Alkaline Phosphatase) ab7345

Description

Product name	Native Staphylococcus aureus Protein A (Alkaline Phosphatase)
Purity	> 95 % Protein A purified.
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	Alkaline Phosphatase

Specifications

Our **Abpromise guarantee** covers the use of **ab7345** 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)

Form	Liquid
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Additional notes	Protein A Concentration: 1.0 mg/ml (by UV absorbance at 280 nm) This product has been assayed against 1.0 ug of Human IgG in a standard capture ELISA using pNPP (p-nitrophenyl phosphate) as a substrate for 30 minutes at room temperature. A working dilution of 1:500 to 1:2,000 of the stock concentration is suggested for this product. Optimal titers for other applications should be determined by the researcher.
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Preparation and Storage

Stability and Storage

Shipped at 4°C. Store at +4°C. Do Not Freeze.

Preservative: 0.1% Sodium azide

Constituents: 0.00136% Zinc chloride, 0.0095% Magnesium chloride, 0.79% Tris HCl, 50% Glycerol (glycerin, glycerine), 0.87% Sodium chloride, 1.5% BSA

BSA is IgG and Protease free

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.

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

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