

Product datasheet

Recombinant Protein A ab52953

Overview

Product name	Recombinant Protein A
Protein length	Protein fragment

Description

Nature	Recombinant
Source	Escherichia coli

Amino Acid Sequence

Molecular weight	39 kDa
Amino acids	32 to 327
Tags	His tag N-Terminus

Specifications

Our [Abpromise guarantee](#) covers the use of **ab52953** in the following tested applications.

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

Applications	SDS-PAGE
Purity	> 95 % SDS-PAGE. Purity: >99% by SDS-PAGE and HPLC analyses.
Form	Liquid

Additional notes

The cell wall binding region, albumin binding region and other non-specific binding regions have been eliminated from this protein to ensure the maximum specific IgG binding.

Preparation and Storage

Stability and Storage	Shipped at 4°C. Upon delivery aliquot. Store at -20°C. Avoid freeze / thaw cycle. Preservative: None Constituents: dH2O Endotoxin level is <0.1 EU/mg of Protein A.
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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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