

Product datasheet

Recombinant Protein A ab52953

Overview

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|-----------------------|-----------------------|
| Product name | Recombinant Protein A |
| Protein length | Protein fragment |

Description

| | |
|---------------|------------------|
| Nature | Recombinant |
| Source | Escherichia coli |

Amino Acid Sequence

| | |
|--|--|
| Accession | P02976 |
| Molecular weight | 39 kDa |
| Amino acids | 32 to 327 |
| Tags | His tag N-Terminus |
| Additional sequence information | Staphylococcus aureus subsp.aureus. Protein A Ig binding domains with 6x His-tag on 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 |
| Endotoxin level | < 0.100 Eu/mg |
| 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. . The 6x His-tag can be used for affinity purification or for protein A detection using anti-His-tag antibody. The recombinant Protein A is ideal for purification of polyclonal or monoclonal IgG antibodies.

Protein A binds to most human and mouse IgG subclasses (e.g: human IgG1, IgG2, IgG4; mouse IgG1, IgG2a, IgG2b, IgG3).

It also binds to total IgG from cow, guinea pig, hamster, horse, pig, and rabbit.
Protein A has little affinity to chicken, goat, rat and sheep.

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.

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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