

## Product datasheet

# Natural Protein A (FITC) ab7455

### 1 References

#### Overview

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|-----------------------|--------------------------|
| <b>Product name</b>   | Natural Protein A (FITC) |
| <b>Protein length</b> | Full length protein      |

#### Description

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|--------------------|----------------------------|
| <b>Nature</b>      | Native                     |
| <b>Source</b>      | Native                     |
| <b>Conjugation</b> | FITC. Ex: 493nm, Em: 528nm |

#### Specifications

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Our [Abpromise guarantee](#) covers the use of **ab7455** in the following tested applications.

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

|                         |   |
|-------------------------|---|
| <b>Applications</b>     | Flow Cytometry<br>Immunomicroscopy  |
| <b>Form</b>             | Liquid  |
| <b>Additional notes</b> | Molecular Weight (protein A): 42,000 daltons Extinction Coefficient: 0.1% at 280 nm is 0.14 (E <sup>0.1%</sup> of 0.14) |

#### Preparation and Storage

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| <b>Stability and Storage</b> | Shipped at 4°C. Store at +4°C.<br>0.02M Potassium Phosphate, 0.15M sodium chloride, pH 7.2 |
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#### General Info

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| <b>Relevance</b> | 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. |
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**Cellular localization**

Secreted; cell wall.

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