Protein A Antibody FITC Conjugated

Catalog No: #C00238F

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Description

Product Name	Protein A Antibody FITC Conjugated
Host Species	Rabbit
Clonality	Polyclonal
Isotype	IgG
Purification	Purified by Protein A.
Applications	IF
Species Reactivity	Saureus
Crossing Reactivity	S. aureus
Immunogen Description	Recombinant protein A
Conjugates	FITC
Target Name	Protein A
Other Names	Immunoglobulin G binding protein A; Staphylococcal protein A; SPA; gG-binding protein A.
Excitation Emission	494nm 518nm
Cell Localization	Extracellular
Concentration	1mg ml
Formulation	0.01M TBS(pH7.4) with 1% BSA, 0.03% Proclin300 and 50% Glycerol.
Storage	Shipped at 4°C. Store at -20°C for one year. Avoid repeated freeze/thaw cycles.

Application Details

IF=1:50-200

Background

Protein A is a 40-60 kDa surface protein originally found in the cell wall of the bacteria Staphylococcus aureus (SPA). SPA binds proteins from many of mammalian species, most notably IgGs, and helps inhibit phagocytic engulfment and acts as an immunological disguise via this type of interaction, thus the bacteria will disrupts opsonization and phagocytosis. SPA is known to bind with Fc region of immunoglobulins preferentially through interaction with the VH3 variable region of the heavy chain. SPA has been shown to bind with high affinity to human IgG1 and IgG2 as well as mouse IgG2a and IgG2b, whereas bind with moderate affinity to human IgM, IgA and IgE as well as mouse IgG3 and IgG1. SPA is often produced in E. coli and is practically coupled to other molecules such as enzymes, biotin, radioactive iodine for use in immunology and other biological research. SPA is also immobilized onto solid supports such as agarose beads for total IgG purifying or interest protein or protein complex identifying in immunoprecipitation studies.

Note: This product is for in vitro research use only