

Recombinant Staphylococcus RPA, His-tagged, Biotinylated

Cat. No. RPA-264S **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Biotinylated Protein A (Biotinylated Protein A) Ala 2 - Cys 293 was labeled with biotin based on Protein A Protein, which was produced in E.coli cells.
Species	Staphylococcus
Source	E.coli
ProteinLength	2-293 a.a.
Description	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. It binds with the Fc region of immunoglobulins through interaction with the heavy chain. It couples to a wide variety of reporter molecules including fluorescent dyes, enzyme markers, biotin, colloidal gold and radioactive iodine without affecting the antibody binding site. Recombinant Protein A was developed to increase the specificity of the molecule for IgG and is widely used both in research and bioprocessing.
Form	Lyophilized from 0.22 µm filtered solution in PBS, pH7.4. Normally Trehalose are added as protectants before lyophilization.
Molecular Mass	Biotinylated Protein A , fused with the polyhistidine tag at the N-terminus consisting 299 amino acids. DTT-reduced protein migrates as a 33.8 kDa polypeptide .

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

Endotoxin	Less than 1.0 EU per µg of the Biotinylated Protein A by the LAL method.
Purity	>95% as determined by reduced SDS-PAGE.
Storage	Avoid repeated freeze-thaw cycles. No activity loss was observed after storage at: In lyophilized state for 1 year (4°C); After reconstitution under sterile conditions for 3 months (-70°C).
Conjugation	Biotin

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