

## S. aureus Protein A (DyLight488 conjugated) - DyLight488

<b>Catalog No.:</b>	RA100DL5
<b>Quantity:</b>	0.1 mg
<b>Concentration:</b>	1.0 mg/ml (by UV absorbance at 280 nm)
<b>Background:</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.
<b>Species:</b>	S. aureus
<b>Format:</b>	<b>State:</b> Lyophilized <b>Purity:</b> >95% <b>Buffer System:</b> 0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2 containing 10 mg/ml BSA and 0.01% (w/v) Sodium Azide <b>Label:</b> DyLight(TM) 488 (MW 1,011.20) <b>Fluorochrome/Protein Ratio:</b> 3,1 moles DyLight(TM) 488 per mole of Protein A <b>Absorption/Emission:</b> 493 nm / 518 nm <b>Reconstitution:</b> Restore with 0.1 ml of deionized water (or equivalent).
<b>Applications:</b>	Western Blot: >1/20,000. ELISA: >1/10,000. Immunofluorescence: >1/5,000. Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.
<b>Description:</b>	Single precipitin arc against anti-Protein A.
<b>Storage:</b>	Prior to reconstitution store at 2-8°C. Following reconstitution store the protein undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer. Avoid repeated freezing and thawing. Shelf life: one year from despatch.