



Anti-S. pyogenes Group A Polyclonal antibody (DPAB1415)

This product is for research use only and is not intended for diagnostic use.

PRODUCT INFORMATION

Specificity	Type specific carbohydrate for group A Streptococcus. Does not cross-react with other Strep groups.
Target	S. pyogenes Group A
Immunogen	Streptococci, Group A
Source/Host	Goat
Species Reactivity	S. pyogenes
Purification	Immunoaffinity purified antibody covalently coupled with high purity Isomer I of fluorescein isothiocyanate (F: P ratio=5.4). Care is taken to ensure complete removal of any free fluorescein from the final product.
Conjugate	FITC
Applications	Suitable for use in ELISA and IFA. Functions both as capture and detection antibody. A starting range of 1:10-1:50 is suggested. Direct FA staining of target antigens in a permissive tissue culture system. Acetone fixation of the antigen source is recommended prior to staining. Pre-block slide with 10% normal goat serum. Each laboratory should determine an optimum working titer for use in its particular application. Other applications have not been tested but use in such assays should not necessarily be excluded.
Concentration	1mg/ml (OD280nm, E0.1%=1.4)
Size	1 ml
Buffer	0.01M PBS, pH 7.2 containing 10mg/ml BSA
Preservative	0.1% Sodium Azide

Storage Short-term (up to 6 months) store at 2-8°C under subdued light. Long term, aliquot and store at -20°C. Avoid multiple freeze/thaw cycles.

BACKGROUND

Introduction Streptococcus pyogenes (Group A streptococcus) is a Gram-positive, nonmotile, nonsporeforming coccus that occurs in chains or in pairs of cells. Individual cells are round-to-ovoid cocci, 0.6-1.0 micrometer in diameter. Streptococci divide in one plane and thus occur in pairs or (especially in liquid media or clinical material) in chains of varying lengths. The metabolism of S. pyogenes is fermentative; the organism is a catalase-negative aerotolerant anaerobe (facultative anaerobe), and requires enriched medium containing blood in order to grow. Group A streptococci typically have a capsule composed of hyaluronic acid and exhibit beta (clear) hemolysis on blood agar.

Keywords Firmicutes; Cocci; Lactobacillales; Streptococcaceae; Streptococcus; S. pyogenes; Streptococcus pyogenes; Group A
