



Recombinant Streptococcus Protein G [HRP] (DAG678)

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

PRODUCT INFORMATION

Product Overview	Recombinant Streptococcus Protein G conjugated to Horseradish Peroxidase (HRP) and expressed in E.coli.
Antigen Description	Protein G is an immunoglobulin-binding protein expressed in group C and G Streptococcal bacteria much like Protein A but with differing specificities. It is a 65-kDa (G148 protein G) and a 58 kDa (C40 protein G) cell surface protein that has found application in purifying antibodies through its binding to the Fc region. The native molecule also binds albumin, however, because serum albumin is a major contaminant of antibody sources, the albumin binding site has been removed from recombinant forms of Protein G.
Specificity	Protein G binds to the Fc portion of immunoglobulin G subclasses (IgGs) from a broad range of species including human and mouse, and does not bind IgA, IgE, IgM or serum albumin.
Species	Streptococcus
Conjugate	HRP
Applications	ELISA
Preservative	None
Storage	2-8°C short term, -20°C long term

BACKGROUND

Introduction	Streptomyces is the largest genus of Actinobacteria and the type genus of the family Streptomycetaceae. Over 500 species of Streptomyces bacteria have been described. As with the other Actinobacteria, streptomycetes are Gram-positive, and have genomes with high GC content. Found predominantly in soil and decaying vegetation, most streptomycetes produce
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spores, and are noted for their distinct "earthy" odor that results from production of a volatile metabolite, geosmin.

Keywords

Spg; IgG binding protein G; Immunoglobulin G binding protein G [Precursor]; Protein G; Bacteria; Firmicutes; Bacilli; Lactobacillales; Streptococcaceae; Streptococcus; Streptococcus protein G; Staphylococcal Protein A; Staphylococcal; Protein A; Immunoglo
