

Product datasheet for **AP09166HR-N**

Protein G Rabbit Polyclonal Antibody

Product data:

Product Type:	Primary Antibodies
Applications:	ELISA, IHC, WB
Recommended Dilution:	Western Blot. Dot Blot. ELISA: 1/20000 to 1/100000. Immunohistochemistry.
Reactivity:	Streptococcus
Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Immunogen:	Protein G [Streptococcus species]
Specificity:	This antibody reacts to Protein G.
Formulation:	0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2 containing 10 mg/ml Bovine Serum Albumin (BSA) as stabilizer and 0.01% (w/v) Gentamicin Sulfate as preservative Label: HRP State: Lyophilized IgG fraction Label: Horseradish Peroxidase
Reconstitution Method:	Restore with 2.0 ml of deionized water (or equivalent). For extended storage reconstitute product with 50% glycerol.
Concentration:	lot specific
Purification:	Ion exchange chromatography
Conjugation:	HRP
Storage:	Prior to reconstitution store at 2-8°C. Following reconstitution store the antibody undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer. Avoid repeated freezing and thawing.
Stability:	Shelf life: one year from despatch.



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Background:

Protein G is a bacterial protein derived from the cell wall of certain strains of b-hemolytic Streptococci. It binds with high affinity to the Fc portion of various classes and subclasses of immunoglobulins from a variety of species. Protein G binds to all IgG subclasses from human, mouse and rat species. It also binds to total IgG from guinea pig, rabbit, goat, cow, sheep, and horse.

Protein G binds preferentially to the Fc portion of IgG, but unlike Protein A can also bind to the Fab region, making it useful for purification of F(ab') fragments of IgG. Due to its affinity for the Fc region of many mammalian immunoglobulins, protein G is considered a universal reagent in biochemistry and immunology.