

## Product datasheet for **AP09166FC-N**

### Protein G Rabbit Polyclonal Antibody

#### Product data:

|                        |  |
|------------------------|--|
| Product Type:          | Primary Antibodies   |
| Applications:          | FC, IF   |
| Recommended Dilution:  | Immunofluorescence: 1/500 - 1/2500.<br>Flow Cytometry: 1/2000 - 1/10000.   |
| 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% Thimerosal as preservative<br>Label: FITC<br>State: Lyophilized IgG fraction<br>Label: Fluorescein isothiocyanate (Molecular Weight 390 daltons)<br>Absorption emission: 495 nm / 528 nm |
| Reconstitution Method: | Restore with 2.0 ml of deionized water (or equivalent).  |
| Concentration:         | lot specific   |
| Purification:          | Ion exchange chromatography  |
| Conjugation:           | FITC   |
| Storage:               | Prior to reconstitution store at 2-8°C.<br>Following reconstitution store the antibody undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer.<br>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.