

## Product datasheet for RA107P

### Rat IgG (Fc Fragment) Rat Protein

#### Product data:

<b>Product Type:</b>	Native Proteins
<b>Description:</b>	Rat IgG Fc Fragment rat protein, 1 mg
<b>Species:</b>	Rat
<b>Protein Source:</b>	Serum
<b>Concentration:</b>	lot specific
<b>Purity:</b>	Rat IgG F(c) fragment was prepared from normal serum by a multi-step process which includes delipidation, salt fractionation, ion exchange chromatography and papain digestion followed by chromatographic separation and extensive dialysis against the buffer
<b>Buffer:</b>	Presentation State: Purified State: Lyophilized purified protein Buffer System: 0.02M Potassium Phosphate, 0.15M Sodium Chloride, pH 7.2 Preservative: 0.01% (w/v) Sodium Azide
<b>Reconstitution Method:</b>	Restore with 1.0 ml of deionized water (or equivalent).
<b>Preparation:</b>	Lyophilized purified protein
<b>Applications:</b>	Rat IgG F(c) Fragment can be utilized as a control or standard reagent in Western Blotting and ELISA experiments.
<b>Protein Description:</b>	Purified Rat IgG F(c) fragment native protein. Rat IgG F(c) fragment was assayed by Immunoelectrophoresis resulted in a single precipitin arc against anti-Rat Serum, anti-Rat IgG and anti-Rat IgG F(c). No reaction was observed against anti-Rat IgG F(ab') <sub>2</sub> or anti-Papain.
<b>Storage:</b>	Prior to reconstitution store at 2-8°C. Following reconstitution store undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer. Avoid repeated freezing and thawing.
<b>Stability:</b>	Shelf life: one year from despatch.



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**Summary:**

Secreted as part of the adaptive immune response by plasma B cells, immunoglobulin G constitutes 75% of serum immunoglobulins. Immunoglobulin G binds to viruses, bacteria, as well as fungi and facilitates their destruction or neutralization via agglutination (and thereby immobilizing them), activation of the complement cascade, and opsonization for phagocytosis. The F(c) fragment binds with very high affinity to the Fc receptor proteins on phagocytic leukocytes. When digested from the whole antibody molecule, the F(c) fragment no longer possesses the epitope recognition site.