Protein G

<table>
<thead>
<tr>
<th>Cat. No.</th>
<th>Form</th>
<th>Quantity</th>
</tr>
</thead>
<tbody>
<tr>
<td>7406-01S</td>
<td>Purified (UNLB) Protein G</td>
<td>1.0 mg</td>
</tr>
<tr>
<td>7406-01L</td>
<td>Purified (UNLB) Protein G</td>
<td>5.0 mg</td>
</tr>
<tr>
<td>7406-05</td>
<td>Horseradish Peroxidase (HRP) Conjugate</td>
<td>1.0 mL</td>
</tr>
</tbody>
</table>

**DESCRIPTION**

**Source**
Recombinant, from *Streptococcus* Strain G148, produced with a SBP tag in E. coli.

**Mr/Structure**
22 KD; Protein G is a monomeric protein lacking cystine residues; on SDS gels, it migrates to 32KD

**Specificity**
Protein G binds the Fc portion of IgGs from many species including all human, and mouse (IgG1, weakly) subclasses. It does not bind IgM, IgA, IgE or serum albumin.

**RESEARCH APPLICATIONS**

- Affinity Chromatography
- Immunoprecipitation
- Gamma Immunoglobulin Capture
- Conjugation on Solid Phase or Others to Detect Gamma Immunoglobulin
- Enzyme-Linked-Immunosorbent-Assay (ELISA)

**CHARACTERIZATION**
To ensure lot-to-lot consistency, each batch of product is tested by SDS-PAGE and/or ELISA to conform to characteristics of a standard reference reagent.

**WORKING DILUTIONS**

**ELISA**
HRP conjugate 1:4,000 – 1:8,000

**Other Applications**
Since applications vary, you should determine the optimum working dilution of the product that is appropriate for your specific need.

*For Research Use Only.  Not for Diagnostic or Therapeutic Use.*
HANDLING AND STORAGE

- The purified UNLB) Protein G is supplied as either 1.0 mg or 5.0 mg in lyophilized form. No BSA, preservatives or amine-containing buffer salts have been added. Store up to one year at -20°C; or after reconstitution in phosphate buffered saline to highest concentration possible, store up to one month at 2-8°C.
- The horseradish peroxidase (HRP) Protein G conjugate is supplied as 1.0 mL of stock solution in 50% glycerol/50% PBS, pH 7.4. No other preservatives have been added. Store at 2-8°C or long-term at -20°C.
- Reagents are stable for the period shown on the label if stored as directed.

REFERENCES