

## UNCONJUGATED SECONDARY ANTIBODIES

Affinity-purified antibodies are isolated from antisera by immunoaffinity chromatography using antigens coupled to agarose gels. A proprietary, sequential elution process is used to detach purified antibodies from the solid-phase antigen.

**Physical State:** Sterile liquid

**Buffer:** 0.01M Sodium Phosphate, 0.25M NaCl, pH 7.6

**Preservative:** None

<b>Size</b> (depends on specificity)	0.5 mg	1 mg	1.5 mg	2 mg
<b>Concentration</b> (depends on size)	~ 0.7 mg/ml	~ 1.3mg/ml	~ 1.8 mg/ml	~ 2.4 mg/ml

### **Suggested Dilution**

**Range:** 10-20 µg/ml for most applications

**Storage:** Store product at 2-8°C until opened. After opening store remainder at 2-8°C under sterile conditions. Dilute only enough antibody for a single day's use.  
**Expiration date:** one year from date of receipt.

**Purity:** Antibodies are isolated from antisera by immunoaffinity chromatography using antigens coupled to agarose beads. They are available in three different forms :

<b>Whole IgG</b>	They are suitable for most applications and are the most cost-effective.
<b>F(ab')<sub>2</sub> fragment</b>	These antibodies are used in specific applications, such as avoiding binding to Protein A or G, or to live cells with Fc receptors.
<b>Fab fragment</b>	These antibodies contain only a single binding site. They can be used to perform specific blocking steps (block endogenous immunoglobulin, several primaries from the same species in multiple labeling experiment).

### **Antibody Specificity:**

<b>Anti-IgG (H+L)</b>	These antibodies react with both the heavy and light chains of the IgG molecule. Anti IgG (H+L) antibodies also react with other Ig classes (e.g. IgM and IgA) since all Ig share the same light chains (either kappa or lambda).
<b>Anti-IgG, Fc fragment specific</b>	These antibodies react with the Fc portion of the IgG heavy chain. They have been tested by ELISA and/or adsorbed against Fab fragments.

<b>Anti-IgG, Fcγ Subclass Specific</b>	These antibodies react with the Fc portion of the IgG heavy chains on individual mouse subclasses. They have been tested by ELISA and/or adsorbed against Fab fragment, IgM, and the other mouse IgG subclasses.
<b>Anti-IgG, F(ab')<sub>2</sub> fragment specific</b>	These antibodies react with the F(ab') <sub>2</sub> /Fab portion of the IgG. They have been tested by ELISA and/or adsorbed against Fc fragments. Since they react with the light chains, they also react with other Ig classes (e.g. IgM and IgA) sharing the same light chains.
<b>Cross-adsorbed (Min X ... Sr Prot)</b>	These antibodies have been tested and/or adsorbed against IgG and serum proteins of those species indicated in the parentheses. They are recommended when the presence of immunoglobulin from other species may lead to interfering cross-reactivities. However, caution should be exercised when considering antibodies that have been adsorbed against closely-related species.
<b>ML (Multiple Labeling)</b>	Some antibodies are designated ML to emphasize their usefulness in multiple labeling in addition to single labeling.

*Warning: Bovine serum albumin (BSA) and dry milk may contain IgG which reacts with anti-bovine IgG, anti-goat IgG, anti-horse IgG, and anti-sheep IgG antibodies. Therefore, use of BSA and/or dry milk to block or dilute these antibodies and/or your primary antibody may significantly increase background and/or reduce secondary antibody titer.*

**Country of Origin:** USA

**Note:** For in vitro research use only, not for diagnostic or therapeutic use. This product is not a medical device.