

Product Data Sheet

**Anti-Rat IgG1 antibodies and conjugates**

<b>Cat#</b> 50121-UL	Goat Anti-Rat IgG1, unlabeled <b>Form:</b> Liquid	<b>Size:</b> 0.5 mg Powder
<b>Cat#</b> 50121-HRP	Goat Anti-Rat IgG1 -HRP conjugate <b>Form:</b> Liquid	<b>Size:</b> 0.5 ml Powder

**Description**

Goats were immunized with antigen grade Rat IgG1. Antibodies have been isolated using ammonium sulfate, ion-exchange, and affinity chromatography. Antibodies were adsorbed with other rat serum proteins and IgGs to make it specific for IgG1. Purified anti-Rat IgG1 antibody is supplied as unlabeled or conjugated to Biotin, FITC, or HRP.

Specificity of antibodies has been tested using IEP, immunodiffusion, and ELISA. The antibodies yielded a single precipitin arc against rat serum, rat IgG, and Fc-fragment. No antibody reactivity is detected to other rat serum proteins, IgG2-3, IgM, IgA or F(ab)2. Anti-rat IgG1 may crossreact with Fc-fragment from other species.

**Form and Storage**

**Cat# 50121-UL, Anti-Rat IgG1 , unlabeled**

The antibody is supplied in PBS, pH 7.4, and 0.05% azide in either **lyophilized** (0.5 mg) or **liquid** form (1 mg/ml). Reconstitute powder in PBS in 0.5 ml to prepare 1 mg/ml solution. Store at -20°C in suitable aliquots. Stability is ~6-12 months. Do not freeze and thaw.

**Cat# 50121-HRP, Anti-Rat IgG1 -HRP-conjugate**

Purified antibody was coupled to HRP (RZ>3.0) using periodate method. The molar enzyme to protein (E/P) ratio = 4.0. The antibody is supplied in stabilizing buffer, 0.2% BSA, and 0.1% proclin-300 as preservative in either **lyophilized** or **liquid** form (0.5-1 mg/ml). Reconstitute powder in PBS in 0.5 ml. Store at 4°C in suitable aliquots. Stability is ~6-12 months. Do not freeze and thaw.

Suggested conjugate dilutions are 1:1,000-1:10,000 ELISA, 1:1K-1:5K for western, and 1:200-1:1000 (IHC).

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**Recommended Working Dilution for ELISA**

Working dilution for the specific application should be determined by the investigator to obtain the best conditions. Working solution should be prepared immediately before use and diluted solution should be discarded.

*This product is for in vitro research use only.*

**MSDS:** A Material Safety Data Sheet is not required for this product. The product does not contain any hazardous components above 1% or any carcinogens above 0.1% as defined in 29 CFR 1910.1200, the OSHA Hazard Communication Standard. The product contains natural purified proteins in a buffer containing 0.1% or less sodium azide. MSDS can be consulted for these items. Please note that although the product is defined as not hazardous, it is still advisable to follow prudent laboratory practices when handling laboratory reagents.

This material is sold for research purposes only and is not required to appear on the TSCA inventory. It is not intended for food, diagnostic, drug, household, agricultural or cosmetic use. Its use must be supervised by a technically qualified individual experienced in handling potentially hazardous chemicals.

**Country of Origin:** USA

**Related Material available for ADI**

**Rat IgG, IgM, IgA ELISA kits**

Anti-Rat IgG1, IgG, IgG (H+L), IgG (H+L) antibodies and conjugates

ELISA kits for the detection of Rat Antibodies

50121-UL, 50121-HRP 71029A