

Product Data Sheet

**Anti-rat IgG1 Antibodies and conjugates**

<input type="checkbox"/> <b>Cat# 50126-UL</b>	Mouse Anti-Rat IgG1, unlabeled	<b>Size:</b> 0.1 mg
<input type="checkbox"/> <b>Cat# 50126-HRP</b>	Mouse Anti- Rat IgG1-HRP conjugate	<b>Size:</b> 0.5 ml
<input type="checkbox"/> <b>Cat# 50126-FITC</b>	Mouse Anti- Rat IgG1-FITC conjugate	<b>Size:</b> 0.5 ml
<input type="checkbox"/> <b>Cat# 50126-BTN</b>	Mouse Anti- Rat IgG1-Biotin conjugate	<b>Size:</b> 0.5 ml
<input type="checkbox"/> <b>Cat# 50126-PE</b>	Mouse Anti- Rat IgG1-PE conjugate	<b>Size:</b> 0.1 ml
<input type="checkbox"/> <b>Cat# 50126-Cy5</b>	Mouse Anti- Rat IgG1-Cy5 conjugate	<b>Size:</b> 0.1 ml

Mouse monoclonal antibodies were generated in rat (IgG1, k). Antibodies have been isolated using ammonium sulfate, ion-exchange, and affinity chromatography to remove non-specific antibodies. Specificity of antibody has been tested using IEP, immunodiffusion, and ELISA. The product reacts with rat IgG1 with no significant reactivity with other rat Ig's or serum proteins. The antibody may recognize other species IgG1. Purified anti-rat IgG1 antibody is supplied as unlabeled or conjugated to Biotin, FITC, HRP, PE, and Cy5.

**Form and Storage**

**Cat# 50126-UL, Anti-Rat IgG1, unlabeled**

The antibody is supplied in PBS, pH 7.4, in either **lyophilized** (100 ug) or **liquid** form (see lot sp conc on the vial) with **No preservatives**. If necessary, 0.01% azide or 0.05% can be added to prevent microbial growth. Reconstitute powder in PBS in 0.1 ml to prepare 1 mg/ml solution. Store at -20oC in suitable aliquots. Stability is ~6-12 months. Do not freeze and thaw.

**Cat# 50126-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, 0.1% proclin-300 as preservative in either **lyophilized** or **liquid** form (0.5 ml). Reconstitute powder in PBS in 0.5 ml. Store at 4oC 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).

**Cat# 50126-FITC, Anti-rat IgG1-FITC-conjugate**

Purified antibody was coupled to FITC at F/P ratio ~3:7. The antibody is supplied in PBS, pH 7.4, 0.2% BSA and 0.05% azide in either **lyophilized** (0.5 ml) or **liquid** form (0.5 ml). Reconstitute powder in PBS in 0.5 ml. Store at -20oC in suitable aliquots. Stability is ~6-12 months. Do not freeze and thaw.

Suggested conjugate dilutions are 1:200-1:1000 for immunofluorescence.

**Absorption** Wavelength: 495 nm  
**Emission** Wavelength: 528 nm

**Cat# 50126-BTN, Anti-Rat IgG1-Biotin-conjugate**

Purified antibody was coupled to Biotin using Biotinamidocaproate N-Hydroxysuccinimide Ester (BAC) at F/P

ratio ~10-20:1. The antibody is supplied in PBS, pH 7.4, 0.2% BSA and 0.05% azide in either **lyophilized** or **liquid** form (0.5 ml). Reconstitute powder in PBS in 0.5 ml. Store at -20oC in suitable aliquots. Stability is ~6-12 months. Do not freeze and thaw.

Suggested conjugate dilutions are 1:1,000-1:10,000 ELISA, 1:2K-1:10K for western.

**Cat# 50126-PE, PE-conjugate**

The purified antibody was coupled to R-Phycoerythrin (R-PE) (Molecular Weight 240,000 daltons) from seaweed using proprietary methods (A565nm/A280nm ~3-4).

**Absorption:** 490 nm, 545 nm and 565 nm  
**Emission Wavelength:** 580 nm

The conjugate is provided in PBS, pH 7.5, containing 0.1% bovine serum albumin, (BSA) 0.05% sodium azide and stabilizing agent). **DO NOT FREEZE**. The product should be stored at 4oC and is stable for a minimum of 1 year. Do not store diluted solutions.

Recommended usage is ~10 ul/10<sup>6</sup> cells for Flow cytometry or FACS. Due to many experimental variations, optimum concn must be determined for a given applications

**Cat# 50126-Cy5, Cy5-conjugate**

Purified antibody was coupled to Cy5.29 (Cyanine 5.29-OSu) (Mol wt 975 Daltons) at F/P ratio ~6:1. The antibody is supplied in PBS, pH 7.4, 0.5% BSA, IgG, and 0.05% azide in either **lyophilized** or **liquid** form (0.1 ml). Reconstitute powder in PBS in 0.1 ml. Store at -20oC in suitable aliquots. Stability is ~6-12 months. Do not freeze and thaw.

**Absorption** Wavelength: 650 nm  
**Emission** Wavelength: 667 nm

**Suggested conjugate dilutions** are 1:100-1:500 for immunofluorescence. Users must optimize the dilutions for a given technique. Recommended usage is ~10 ul/10<sup>6</sup> cells for Flow cytometry or FACS

**Related Material available for ADI**

**Rat IgG,, IgM ELISA kits**

Anti-rat IgG (H+L), IgG1-3antibodies and conjugates  
ELISA kits for the detection of rat Antibodies

**Western blot recycling kit** (Use the same blot/strip to probe with multiple antibodies) **Strip Antibodies in 5 minutes** (no heating or mercaptoethanol)

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