



Product Data Sheet

**Goat Anti-Rat IgG (H+L) Antibodies and conjugates**

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|-------------------|---|---------------------|
| <b>Cat#</b> 50331 | Goat Anti-Rat IgG (H+L)- <b>Rhodamine</b> (TRITC) conjugate (adsorbed)  | <b>Size:</b> 0.5 ml |
| <b>Cat#</b> 50332 | Goat Anti-Rat IgG (H+L)- <b>Phycoerythrin</b> (PE) conjugate (adsorbed) | <b>Size:</b> 0.5 ml |
| <b>Cat#</b> 50333 | Goat Anti-Rat IgG (H+L)- <b>Texas Red</b> conjugate (adsorbed)          | <b>Size:</b> 0.5 ml |

**Description**

Goats were immunized with antigen grade **Rat IgG (H+L)**. 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 IgG, IgA and IgM with no significant reactivity with other Rat serum proteins. **Antibodies were further adsorbed with serum proteins from several species (bovine, Chicken, goat Guinea Pig, Hamster, Horse, Rabbit, Mouse, and sheep) to minimize reactivity with these species.** The antibody may recognize other species IgG (H+L or IgA, IgG, IgM etc). Purified anti-Rat IgG (H+L) antibody is supplied as unlabeled or conjugated to Biotin, FITC, Alk. phos., HRP, Rhodamine, phycoerythrin (PE), Texas Red, Cy3, Cy5, and various IRDye (700DX, 800, and 800CW) to accommodate applications in various immunological techniques.

**Form and Storage**

**Cat# 50331, Rhodamine (TRITC)-conjugate**

Purified anti-Rat IgG (H+L) antibody was coupled to Tetramethylrhodamine isothiocyanate (TRITC) (Molecular Weight 444 daltons) at F/P ratio ~3:7. The antibody is supplied in PBS, pH 7.4, 0.5% BSA, IgG, and 0.05% azide in either **lyophilized** (0.5 ml) or **liquid** form (0.5 ml at ~0.5 mg/1 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.

**Suggested applications:** immunomicroscopy and flow cytometry or FACS analysis as well as other antibody based fluorescent assays

**Suggested conjugate dilutions** are 1:100-1:500 for immunofluorescence. Users must optimize the dilutions for a given technique.

**Absorption Wavelength:** 550 nm

**Emission Wavelength:** 570 nm

**Cat# 50332, Phycoerythrin (PE)-conjugate**

Purified anti-Rat IgG (H+L) antibody was coupled to Phycoerythrin (R-PE) (Molecular Weight 240,000 daltons) from seaweed at F/P ratio of 1-2:1. . The antibody is supplied in PBS, pH 7.4, 0.5% BSA, IgG and 0.05% azide in either **lyophilized** (0.5 ml) or **liquid** form (0.5 ml at ~0.5 mg/1 ml). Reconstitute powder in PBS in 0.5 ml to prepare 1 mg/ml solution. Store at -40°C and DO NOT FREEZE. Store in the dark in suitable aliquots. Stability is ~6-12 months. Do not freeze and thaw.

**Suggested applications:** Suitable for immunomicroscopy and flow cytometry or FACS analysis as well as other antibody based fluorescent assays

**Suggested conjugate dilutions** are 1:100-1:200 for immunofluorescence. Users must optimize the dilutions for a given technique.

**Absorption Wavelength:** 490, 545, 565 nm

**Emission Wavelength:** 580 nm

**Cat# 50333, Texas Red-conjugate**

Purified anti-Rat IgG (H+L) antibody was coupled to Texas Red. Sulfonyl Chloride (Molecular Weight 625 daltons) at F/P ratio of 3-4:1. . The antibody is supplied in PBS, pH 7.4, 0.5% BSA, IgG and 0.05% azide in either **lyophilized** (0.5 ml) or **liquid** form (0.5 ml at ~0.5 mg/1 ml). Reconstitute powder in PBS in 0.5 ml to prepare 1 mg/ml solution. Store at -40°C and DO NOT FREEZE. Store in the dark in suitable aliquots. Stability is ~6-12 months. Do not freeze and thaw.

**Suggested applications:** suitable for immunomicroscopy and flow cytometry or FACS analysis as well as other antibody based fluorescent assays.

**Suggested conjugate dilutions** are 1:100-1:300 for immunofluorescence. Users must optimize the dilutions for a given technique.

**Absorption Wavelength:** 596 nm

**Emission Wavelength:** 620 nm

**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.

**Origin:** All material used in various products are derived from US sources and USDA inspected facilities.

**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. This material is not required to appear on the TSCA inventory.

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

**Related Material available for ADI**

**Rat IgG, IgM ELISA kits**

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

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