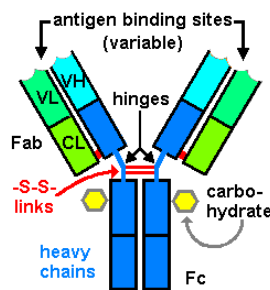


Product Data Sheet

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

□ <b>Cat# 40319</b>	Goat Anti-mouse IgG (H+L), unlabeled	<b>Size:</b> 1 mg
□ <b>Cat# 40320</b>	Goat Anti-mouse IgG (H+L)-HRP conjugate	<b>Size:</b> 1 ml
□ <b>Cat# 40330</b>	Goat Anti-mouse IgG (H+L)-FITC conjugate	<b>Size:</b> 0.5 ml
□ <b>Cat# 40340</b>	Goat Anti-mouse IgG (H+L)-Biotin conjugate	<b>Size:</b> 0.5 mg
□ <b>Cat# 40350</b>	Goat Anti-mouse IgG (H+L)-AP conjugate	<b>Size:</b> 0.5 ml



Immunoglobulin G (IgG)

Immunoglobulin G (IgG) is a type of antibody. It is a protein complex composed of four peptide chains—two identical heavy chains and two identical light chains arranged in a Y-shape typical of antibody monomers. IgG has molecular weight of approximately 150 kDa, heavy or H chain approximately 50 kDa and light or L chain 25 kDa. Each IgG has two antigen binding sites. Representing

approximately 75% of serum antibodies in humans, IgG is the most common type of antibody found in the circulation.

Goats were immunized with antigen grade **mouse 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 mouse IgG, IgA and IgM with no significant reactivity with other serum proteins. The antibody may recognize other species IgG (H+L or IgA, IgG, IgM etc)). Purified anti-mouse IgG (H+L) antibody is supplied as unlabeled or conjugated to Biotin, FITC, AP or HRP.

**Form and Storage**

**Cat# 40319, Anti-mouse IgG (H+L), unlabeled**

The antibody is supplied in PBS, pH 7.4, and 0.05% azide in either **lyophilized** (1.0 mg) or **liquid** form (1 mg/ml). Reconstitute powder in PBS in 1.0 ml to prepare 1 mg/ml solution. Store at -20oC in suitable aliquots. Stability is ~6-12 months. Do not freeze and thaw.

**Cat# 40320, Anti-mouse IgG (H+L)-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% prolcin-300 as preservative in either **lyophilized** (1 ml) or **liquid** form (0.5-1 mg/ml). Reconstitute powder in PBS in 1 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# 40330, Anti-mouse IgG (H+L)-FITC-conjugate**

Purified anti-mouse IgG (H+L) 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 mg/0.5 ml). Reconstitute powder in PBS in

0.5 ml to prepare 1 mg/ml solution. Store at -20oC in suitable aliquots. Stability is ~6-12 months. Do not freeze and thaw.

Suggested conjugate dilutions are 1:200-1:2000 for immunofluorescence.

**Absorption Wavelength:** 495 nm

**Emission Wavelength:** 528 nm.

**Cat# 40340, Anti-mouse IgG (H+L)-Biotin-conjugate**

Purified anti-mouse IgG (H+L) 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** (0.5 mg) or **liquid** form (0.5 mg/0.5 ml). Reconstitute powder in PBS in 0.5 ml to prepare 1 mg/ml solution. Store at -20oC in suitable aliquots. Stability is ~6-12 months. Do not freeze and thaw.

Suggested conjugate dilutions are 1:5,000-1:30,000 ELISA, 1:2K-1:10K for western.

**Cat# 40350, AP-conjugate**

The conjugate is provided at ~0.5 mg/ml as liquid in a stabilizing buffer (50 mM HEPES pH 7.1, 0.1 M NaCl, 1 mM MgCl<sub>2</sub>, 0.1 mM ZnCl<sub>2</sub>, pH 7.5, containing 0.2% bovine serum albumin, 0.05% sodium azide). The product should be **stored at 4°C** and is stable for a minimum of 1 year. Do not store diluted solutions.

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

**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.

**Related Material available for ADI**

Catalog#	Prod Description
40319	Anti-Mouse IgG, aff pure
40319-G10	Anti-Mouse IgG (H+L)-Gold (~10 nm) Conjugate
40319-GAF-BLK	Anti-Mouse IgG, Affinity Purified (Bulk)
40319-GAS-BLK	Anti-Mouse IgG, Antisera (Bulk)
40319-R	Anti-Mouse IgG (H+L) IgG, aff pure
40320	Anti-Mouse IgG (H+L)-HRP conjugate
40320-200	Anti-Mouse IgG-HRP conjugate
40323-200	Anti-Mouse IgG-HRP conjugate
40323-Cy2	Anti-Mouse IgG-Cy2 Conjugate
40323-Cy3	Anti-Mouse IgG-Cy3 Conjugate
40324	Anti-Mouse IgG+IgM+IgA-HRP conjugate
40330	Anti-Mouse IgG (H+L)-FITC conjugate
40330-200	Anti-Mouse IgG-FITC conjugate
40319-Gt-Anti-Mouse-IgG	151130SV