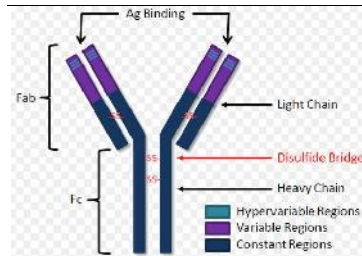


Product Data Sheet

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

– <b>Cat# 30219</b>	Rabbit Anti-Goat IgG, unlabeled	<b>Size:</b> 1 mg
– <b>Cat# 30220</b>	Rabbit Anti-Goat IgG <b>-HRP</b> conjugate	<b>Size:</b> 1 ml
– <b>Cat# 30221</b>	Rabbit Anti-Goat IgG <b>-FITC</b> conjugate	<b>Size:</b> 0.5 ml
– <b>Cat# 30228</b>	Rabbit Anti-Goat IgG <b>-Rhodamine (TR)</b> conjugate	<b>Size:</b> 0.5 ml
– <b>Cat# 30240</b>	Rabbit Anti-Goat IgG <b>-Biotin</b> conjugate	<b>Size:</b> 0.5 ml
– <b>Cat# 30350</b>	Rabbit Anti-Goat IgG <b>-Alk. Phosphatase</b> conjugate	<b>Size:</b> 0.5 ml



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. 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. IgG molecules are created and released by plasma B cells. IgG antibodies are large molecules of about 150 kDa made of four peptide chains. It contains two identical class heavy chains of about 50 kDa and two identical light chains of about 25 kDa, thus a tetrameric quaternary structure. The two heavy chains are linked to each other and to a light chain each by disulfide bonds. The resulting tetramer has two identical halves, which together form the Y-like shape. Each end of the fork contains an identical antigen binding site. There are four IgG subclasses (IgG1, 2, 3, and 4) in humans, named in order of their abundance in serum (IgG1 being the most abundant).

Rabbits were immunized with antigen grade **Goat 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 Goat 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-Goat IgG (H+L) antibody is supplied as unlabeled or conjugated to Biotin, FITC, AP or HRP or Rhodamine.

**Form and Storage**

**Cat# 30219, unlabeled**

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

**Cat# 30220, 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** or **liquid** form. Reconstitute powder in water. Store at 4oC in suitable aliquots. Stability is ~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# 30221, FITC-conjugate**

Purified anti-Goat 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** or **liquid** form.

Reconstitute powder in PBS to prepare stock solution. Store at -20oC in suitable aliquots. Stability is ~12 months. Do not freeze and thaw.

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

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

**Cat# 30228, TRITC-conjugate**

Purified anti-Goat IgG (H+L) antibody was coupled to Tetramethylrhodamine isothiocyanate (Rhodamine or TRITC) TRITC at F/P ratio ~2:1. The antibody is supplied in PBS, pH 7.4, 0.2% BSA and 0.05% azide in either **lyophilized** or **liquid** form. Reconstitute powder in PBS in to prepare stock 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:** 550 nm **Emission:** 570 nm

**Cat# 30240, Biotin-conjugate**

Purified anti-Goat 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** or **liquid** form. Reconstitute powder in PBS to prepare stock solution. Store at -20oC in suitable aliquots. Stability is ~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# 30350, AP-conjugate**

The conjugate is provided at ~0.2 mg/0.5ml as liquid in a stabilizing buffer (50 mM Tris-150 mM NaCl-1 mM MgCl<sub>2</sub>, pH 7.5, containing 1% bovine serum albumin, 0.05% sodium azide), 50% glycerol. The product should be **stored at -20°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.

This product is for in vitro research use only.

**Related Material available for ADI**

**Goat IgG,, IgM ELISA kits**

ELISA kits for the detection of Goat Antibodies  
30219-Rabbit-Anti-Goat-IgG-Conjugates

150819A

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