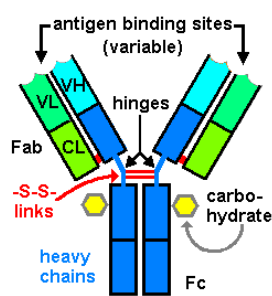


Product Data Sheet

Anti-Monkey IgG (γ -Chain specific) antibodies and conjugates

Cat #. 70023	Goat Anti-Monkey IgG (gamma) IgG, unlabeled	Size: 0.5 mg
Cat #. 70021	Goat Anti-Monkey IgG (gamma)-HRP conjugate	Size: 0.5 ml
Cat #. 70022	Goat Anti-Monkey IgG (gamma)-Alk Phos conjugate	Size: 0.5 ml
Cat #. 70025	Goat Anti-Monkey IgG (gamma)-FITC conjugate	Size: 0.5 ml
Cat #. 70028	Goat Anti-Monkey IgG (gamma)-Biotin conjugate	Size: 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 monkey (old world) IgG heavy chain. Antibodies have been isolated using ammonium sulfate, ion-exchange, and affinity chromatography. Antibodies were made specific for heavy-chain by removing any antibodies crossreactive with light chains. Purified anti-monkey IgG (γ -chain specific) were labeled with highly purified preparation of horse radish peroxidase by periodate method (1)

Purity/Specificity

The conjugate contains affinity pure antibody at approximately 0.5 mg/ml. The molar enzyme to protein (E/P) ratio = 2:1.

Specificity has been tested using IEP, immunodiffusion, and ELISA. The product reacts with monkey IgG only. The antibody may recognize other species IgG's that have common gamma chains, particularly IgG's from other related monkeys. However, no antibody is detected to other serum proteins or IgM or IgA.

Form and Storage

Cat# 70023, 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 -20oC in suitable aliquots. Stability is ~6-12 months. Do not freeze and thaw.

Cat# 70021, 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** (0.5 ml) or **liquid** form (1 ml). Reconstitute powder in PBS in 1 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, 1:1K-1:5K for western, and 1:200-1:1000 (IHC).

Cat# 70022, AP-conjugate

The conjugate is provided at ~0.5-1 mg/ml as liquid in a stabilizing buffer (50 mM HEPES pH 7.1, 0.1 M NaCl, 1 mM MgCl₂, 0.1 mM ZnCl₂, 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).

Cat# 70028, Biotin-conjugate

Purified antibody was coupled to Biotin using ADI Biotinylation kit # 80300 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.

Cat# 70025, 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 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: 495 nm **Emission:** 528 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.

All products are for In vitro research use only.

**Related Material available for ADI
Monkey IgG, IgA, IgM, and IgE ELISA kits**

ELISA kits for the detection of mouse Antibodies
70021-Gt-Anti-Monkey-IgG 151201SV