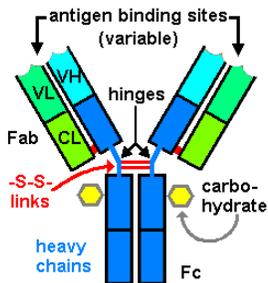


Product Data Sheet

□ Cat# 20001-G1	Bovine IgG1 (Serum Control, non-immune) purified	□ Size: 0.1 mg
□ Cat# 20001-G1-B	Bovine IgG1-biotin conjugate (Serum Control, non-immune) purified	□ Size: 0.1 mg
□ Cat# 20001-G1-HRP	Bovine IgG1-HRP conjugate (Serum Control, non-immune) purified	□ Size: 0.1 mg



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. 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).

Form and Storage

The normal Bovine IgG1 is provided as liquid (1 mg/ml in PBS containing 0.09% Sodium Azide) or in lyophilized form. The product should be stored at 4°C for short term and -20°C for long term storage. It is stable for a minimum of 1 year. Do not store diluted solutions. Sodium azide, an inhibitor of peroxidase, must be avoided if used with antibody-HRP conjugates.

Cat# 20001-G1, unlabeled IgG1

IgG1 is supplied in PBS, pH 7.4, and 0.09% azide in either **lyophilized** (100 ug) or **liquid** form (1 mg/ml or see lot sp. concn on the vial). Reconstitute powder in PBS at 100 ug/ml or as desired. Store at -20oC in suitable aliquots. Stability is ~6-12 months. Do not freeze and thaw. Controls are typically tested at 0.1-1 ug/ml depending upon the application.

Cat# 20001-G1-B, Biotin-conjugate

Purified Bovine IgG1 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, 1 % BSA in either **lyophilized** (50 tests per vial) or **liquid** form (50 tests/100 ul or see lot sp. concn on the vial). Reconstitute powder in PBS in 100 ul or more. Store at -20oC in suitable aliquots. Stability is ~6-12 months. Do not freeze and thaw. No preservatives have been added. Sodium azide (0.1%) or merthiolate (0.05%) can be added if necessary to prevent bacterial growth.

Suggested conjugate dilutions are 1:5,000-1:30,000 ELISA. For other applications use as needed.

Cat# 20001-G1-HRP, HRP-conjugate

Purified Bovine IgG1 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** (50 tests per vial) or **liquid** form (50 tests/100 ul or approx. 50 ug/100ul). Reconstitute powder in PBS in 0.1 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).

Suggested Uses

This preparation of normal (control) IgG is suitable for coating the ELISA plates or as a non-immune control for ELISA, dot blot, Western or IHC. It can also be used to prepare immunoabsorbent affinity column to remove certain antibodies or to purify antibodies to it. Recommended testing concn. is approx. 1-10 ug/ml. It is, however, possible that this preparation may be unsuitable for some antigens or cell/tissue extracts and may give slightly higher background. Switching to another preparation from different Bovine or vendor may alleviate this problem.

This product is for in vitro research use only.

Anti-rabbit IgG, Chicken, Bovine, Human IgG-HRP/AP Conjugates are also available.

20001-G1-Bovine-IgG1

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