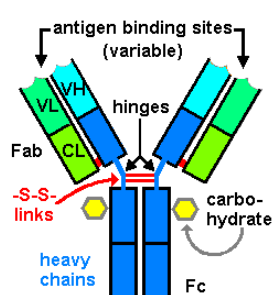


Product Data Sheet

**Anti-Bovine IgG1 Antibodies and conjugates**

<b>Cat#</b> 80651-UL	Sheep Anti-Bovine IgG1, unlabeled	<b>Size:</b> 0.5 mg
<b>Cat#</b> 80651-HP	Sheep Anti-Bovine IgG1-HRP conjugate	<b>Size:</b> 1 ml
<b>Cat#</b> 80651-F	Sheep Anti-Bovine IgG1-FITC conjugate	<b>Size:</b> 1 ml
<b>Cat#</b> 80651-B	Sheep Anti-Bovine IgG1-Biotin conjugate	<b>Size:</b> 1 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.

Sheep were immunized with antigen grade **Bovine IgG1**. 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 Bovine 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-Bovine IgG1 antibody is supplied as unlabeled or conjugated to Biotin, FITC, AP or HRP.

**Form and Storage**

**Cat# 80651-UL, Anti-Bovine IgG1, 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 -20°C in suitable aliquots. Stability is ~6-12 months. Do not freeze and thaw.

**Cat# 80651-HP, Anti-Bovine IgG1-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-400 as preservative in either **lyophilized** or **liquid** form. Reconstitute powder in water. Store at 4°C 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# 80651-F, Anti-Bovine IgG1-FITC-conjugate**

Purified anti-Bovine IgG1 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. Reconstitute powder in water to prepare stock solution. Store at -20°C 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# 80651-B, Anti-Bovine IgG1-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** or **liquid** form. Reconstitute powder in water to prepare stock solution. Store at -20°C 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.

**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**

**Bovine IgG, IgM ELISA kits**

Anti-Bovine IgG1, IgG, IgG1, IgG1 antibodies and conjugates

ELISA kits for the detection of Bovine Antibodies

**Western blot recycling kit** (Use the same blot/strip to probe with multiple antibodies) **Strip Antibodies in 5 minutes** (no heating or mercaptoethanol)

80651-Sheep-Anti-Bovine-IgG-Conjugates 160415SV