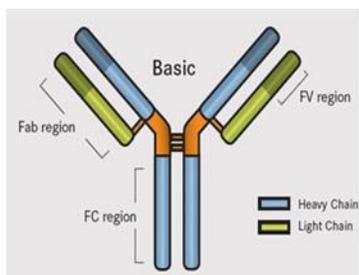


Product Data Sheet

□ Cat# 20001-3-UL	Bovine IgG Fab, unlabeled (non-immune, isotype control) purified	□ Size: 0.1 mg
□ Cat# 20001-3-B	Bovine IgG Fab-Biotin conjugate (non-immune, isotype control) purified	□ Size: 0.1 mg
□ Cat# 20001-3-F	Bovine IgG Fab-FITC conjugate (non-immune, isotype control) purified	□ Size: 0.1 mg
□ Cat# 20001-3-HP	Bovine IgG Fab-HRP conjugate (non-immune, isotype control) purified	□ Size: 0.1 mg



Fab is the antigen binding region on an antibody. It consists of heavy chain and a light chain. It is generated by mild reduction of $F(ab')_2$. $F(ab')_2$ fragments of antibodies are generated by pepsin digestion of whole IgG antibodies to remove a portion of the Fc region while leaving

intact some of the hinge region. $F(ab')_2$ fragments have two antigen-binding Fab portions linked together by disulfide bonds, and therefore are divalent. The average molecular weight of Fab is about 55kDa. They are used for specific applications, such as to avoid binding of antibodies to Fc receptors on cell surfaces or binding to Protein A or Protein G.

Form and Storage

The normal Bovine IgG is provided as liquid (1 mg/ml in PBS pH 7.4 + 0.05% sodium azide as preservative) 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# 20001-3-UL, unlabeled IgG Fab

IgG Fab is supplied in PBS, pH 7.4, and 0.05% 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 -20°C 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# 20001-3-B, Biotin-conjugate

Purified Bovine IgG-fab 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 -20°C 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# 20001-3-F, FITC-conjugate

Purified Bovine IgG was coupled to FITC at F/P ratio ~4-5:1. The antibody is supplied in PBS, pH 7.4, azide in either **lyophilized** (50 tests per vial) or **liquid** form (50 tests/500 ul or ~50 ug/vial). Reconstitute powder in PBS in 0.5 ml or as desired. Store at 4°C in suitable aliquots. Stability is ~6-12 months. Do not freeze and thaw.

Suggested conjugate dilutions are 1:50-1:500 for immunofluorescence or as optimized for a given tests.

Color: Green

Absorption: 495 nm

Emission: 528 nm

Cat# 20001-3-HP, HRP-conjugate

Purified Bovine IgG 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 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).

Suggested Uses

This preparation of normal (control) IgG Fab 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.

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