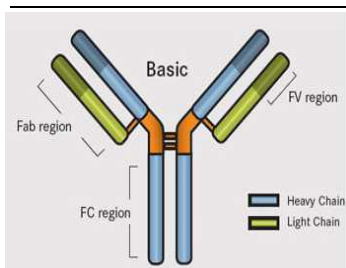


Product data sheet

**Anti-Mouse IgG (Fc specific) F(ab')<sub>2</sub> fragment -Antibodies and conjugates**

|                        |  |                   |
|------------------------|--|-------------------|
| <b>Cat#</b> 40152-UL   | Goat Anti-Mouse IgG (Fc), unlabeled F(ab') <sub>2</sub> fragment     | <b>Size:</b> 1 mg |
| <b>Cat#</b> 40152-HRP  | Goat Anti-Mouse IgG (Fc)-HRP conjugate F(ab') <sub>2</sub> fragment  | <b>Size:</b> 1 ml |
| <b>Cat#</b> 40152-FITC | Goat Anti-Mouse IgG (Fc)-FITC labeled F(ab') <sub>2</sub> fragment   | <b>Size:</b> 1 ml |
| <b>Cat#</b> 40152-BT   | Goat Anti-Mouse IgG (Fc)-Biotin labeled F(ab') <sub>2</sub> fragment | <b>Size:</b> 1 ml |



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')<sub>2</sub>. F(ab')<sub>2</sub> 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')<sub>2</sub> 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.

Goats were immunized with antigen grade mouse IgG. Antibodies have been isolated using ammonium sulfate, ion-exchange, and affinity chromatography. Antibodies were made specific for IgG-Fc by removing any antibodies cross-reactive with light chains and other Ig's (IgM, IgA etc.). Specificity has been tested using IEP, immunodiffusion, and ELISA. Purified antibodies react with mouse IgG with minimal reactivity with mouse IgA and IgM. The antibody may recognize other species IgG's that have common gamma chains. However, no antibody is detected to other serum proteins. Purified antibodies are supplied as unlabeled, HRP-, Biotin, FITC, and AP conjugates.

**Form and Storage**

**Cat# 40152-UL, 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 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# 40152-HRP, 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** (1 ml) or **liquid** form (1 ml). Reconstitute powder in PBS in 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).

**Cat# 40152-FITC, FITC-conjugate**

Purified anti-Mouse IgG antibody was coupled to FITC at F/P ratio ~4-5:1. The antibody is supplied in PBS, pH 7.4, 0.2% BSA and 0.05% azide in either **lyophilized** or **liquid** form (or see lot sp. conc on the vial). Reconstitute powder in PBS in 1 ml to prepare 1 mg/ml 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# 40152-BTN, 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 (or see lot sp. conc on the vial). Reconstitute powder in PBS in 1 ml 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.

**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 from ADI**

**Catalog# ProdDescription**

|               |  |
|---------------|--|
| 40150         | Anti-Mouse IgG (heavy-chain sp.)-Alk. Phos. Conjugate  |
| 40151-BT      | Anti-Mouse IgG (Fc) IgG-Biotin Conjugate   |
| 40151-FITC    | Anti-Mouse IgG (Fc) IgG-FITC Conjugate   |
| 40151-GAF-BLK | Anti-Mouse IgG, Fc Fragment, Affinity Purified (Bulk)  |
| 40151-GAS-BLK | Anti-Mouse IgG, Fc Fragment, Antisera (Bulk)   |
| 40151-HRP     | Anti-Mouse IgG (Fc) IgG-HRP Conjugate  |
| 40151-UL      | Anti-Mouse IgG (Fc) IgG, unlabeled   |
| 40152-BT      | F(ab') <sub>2</sub> fragment, Anti-Mouse IgG (Fc) IgG-Biotin Conjugate (adsorbed with bovine, horse, and human serum proteins) |
| 40152-FITC    | F(ab') <sub>2</sub> fragment, Anti-Mouse IgG (Fc) IgG-FITC Conjugate (adsorbed with bovine, horse, and human serum proteins)   |
| 40152-HRP     | F(ab') <sub>2</sub> fragment, Anti-Mouse IgG (Fc) IgG-HRP Conjugate (adsorbed with bovine, horse, and human serum proteins)    |
| 40152-UL      | F(ab') <sub>2</sub> fragment, Anti-Mouse IgG (Fc), unlabeled (adsorbed with bovine, horse, and human serum proteins)           |
| 40153-HP      | Anti-Mouse IgG F(ab') <sub>2</sub> fragment specific-HRP Conj. (adsorbed with bovine, horse, and human serum proteins)         |
| 40153-UL      | Anti-Mouse IgG F(ab') <sub>2</sub> fragment specific, unlabeled (adsorbed with bovine, horse, and human serum proteins)        |
| 40154-HP      | Anti-Mouse IgG-Fab-HRP Conjugate   |
| 40154-UL      | Anti-Mouse IgG-Fab, unlabeled  |
| 40222         | Anti-Mouse IgM (mu-chain sp.) Fab <sub>2</sub> fragment  |
| 40152-Gt      | Anti-Mouse IgG-Fc 151026SV   |