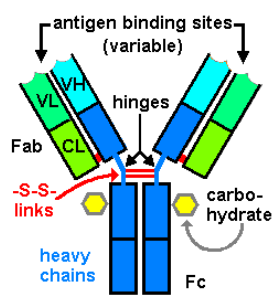


Product Data Sheet

Anti-Mouse IgG1 Antibodies and conjugates

Cat# 40121-F	Goat Anti-Mouse IgG1 (heavy-chain sp.)-FITC conjugate	Size: 0.5 ml
Cat# 40121-BT	Goat Anti-Mouse IgG1 (heavy-chain sp.)-Biotin labeled	Size: 100 ug
Cat# 40126	Goat Anti-Mouse IgG1 (heavy-chain sp.)-HRP Conjugate, aff pure	Size: 0.5 ml
Cat# 40121	Goat Anti-Mouse IgG1 (heavy-chain sp.) aff pure, unlabeled	Size: 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.

Goats were immunized with antigen grade mouse IgG1. Antibodies have been isolated using ammonium sulfate, ion-exchange, and affinity chromatography. Antibodies were made specific for IgG1 by removing any antibodies crossreactive with other Ig's. Specificity has been tested using IEP, immunodiffusion, and ELISA. Purified antibodies react with mouse IgG1 with minimal reactivity with other isotypes, IgA, IgM or other serum proteins. The antibody may recognize other species IgG1's. Purified antibodies are supplied as unlabeled, HRP-, Biotin, FITC, and AP conjugates.

Form and Storage

Cat# 40121, unlabeled

The antibody is provided as liquid (1 mg/ml in PBS pH 7.4 + 0.05% sodium azide as preservative) or in lyophilized form (amount of protein stated on the vial). The product should be **stored at 4°C** for short term and **-20°C** for long term storage. Alternatively, for extended storage mix liquid with an equal volume of glycerol, aliquot contents and freeze at **-20° C** or below. It is stable for a minimum of 1 year. Do not store diluted solutions. Sodium azide, an inhibitor of peroxidase, must be removed if used with antibody-HRP conjugates.

The **lyophilized products** should be dissolved in PBS, pH 7.4 to prepare desired concentration by gentle rocking or vortexing at room temperature. Centrifuge the IgG solution briefly (10,000 g, 15 min) to remove any particulate matter. It should be aliquoted and stored frozen for long term use.

Cat# 40126-200, 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 (200 ug/0.5 ml). Reconstitute powder in PBS in 0.5 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# 40121-BT, Biotin-conjugate

Purified antibody was coupled to Biotin using Biotinamidocaproate N-Hydroxysuccinimide Ester (BAC) at F/P ratio ~10-20:1. The antibody is supplied in PBS, pH 7.4, 1% BSA and 0.05% azide in either lyophilized or liquid form (see lot sp. concn on the vial). Reconstitute powder in PBS in 100 ul 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 1:1,000-1:10,000 ELISA.

Cat# 40121-F, FITC-conjugate

Purified Human IgG Fc was coupled to FITC at F/P 1% BSA and 0.05% azide at 100 ug/100 ul. Store at -20°C in suitable aliquots. Stability is ~6-12 months. Do not freeze and thaw. Suggested conjugate dilutions are 1:20-1:500 for immunofluorescence. Absorption Wavelength: 495 nm Emission Wavelength: 528 nm

Recommended Working Dilution for ELISA

Working dilution for the specific application should be determined by the investlgg1tor 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

Catalog# Prod Description

20102-101-1	Mouse IgG1 isotype control, purified
20102-101	Mouse IgG1 isotype control, purified
6330	Mouse IgG1 ELISA Kit, 96 tests, Quantitative
MG1-T1-50	Mouse IgG1 FITC/PE/PE-Cy5 (triple label) control
40121-BT	Anti-Mouse IgG1 (heavy-chain sp.)-biotin labeled
MG1-T1-100	Mouse IgG1 FITC/PE/PE-Cy5 (triple label) control
MG1-T1-100	Mouse IgG1 FITC/PE/PE-Cy5 (triple label) control
MG1-T1-25	Mouse IgG1 FITC/PE/PE-Cy5 (triple label) control
40121	Anti-Mouse IgG1 (heavy-chain sp.) aff pure, unlabeled
20102-101-PE	Mouse IgG1-PE conjugate (isotype control)
40126	Anti-Mouse IgG1 (heavy-chain sp.)-HRP Conjugate, aff pure
20102-101-F	Mouse IgG1-FITC conjugate (isotype control)
MG1-D2-25	Mouse IgG1 FITC/IgG2a PE
MG1-D3-100	Mouse IgG1 FITC/IgG2b PE
40126-200	Anti-Mouse IgG1-HRP Conjugate, aff pure
20102-101-FP	Mouse IgG1-FITC-PE conjugate (isotype control)
MG1F-100	Mouse IgG1 FITC (isotype control)

40121-Gt-Anti-Mouse-IgG 160210SV

India Contact:

Life Technologies (India) Pvt. Ltd.

306, Aggarwal City Mall, Opposite M2K Pitampura, Delhi – 110034 (INDIA). Ph: +91-11-42208000, 42208111, 42208222, Mobile: +91-9810521400, Fax: +91-11-42208444
Email: customerservice@lifetechindia.com Website: www.lifetechindia.com