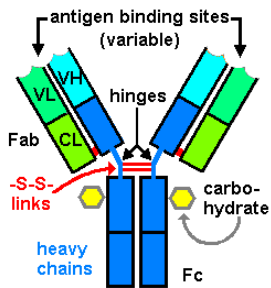


Product Data Sheet

Rabbit IgG and Conjugates (Isotype Controls)

□ Cat# 20009-1	Rabbit IgG (non-immune), unlabeled (isotype control)	Size: 1 mg
□ Cat# 20009-B	Rabbit IgG (non-immune), Biotin conjugate (isotype control)	Size: 100 ug
□ Cat# 20009-F	Rabbit IgG (non-immune), FITC conjugate (isotype control)	Size: 100 ug
□ Cat# 20009-HP	Rabbit IgG (non-immune), HRP conjugate (isotype control)	Size: 100 ug
□ Cat# 20009-PE	Rabbit IgG (non-immune), PE conjugate (isotype control)	Size: 100 tests



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.

A healthy non-immunized population of rabbits was used to collect serum. IgG was prepared by ammonium sulfate, and column chromatography (Sephadex, and DEAE-ion exchange columns). The resulting preparation was judged to be >95% pure by IEP and SDS-Page. Highly purified Rabbit serum IgG was labeled with purified preparation of calf intestinal alkaline phosphatase (AP), (horseradish peroxidase) HRP, Biotin or FITC or PE.

Form and Storage

Cat# 20009-1, unlabeled

The antibody is supplied in PBS, pH 7.4, and 0.05% azide in either **lyophilized** (1 mg) or **liquid** form (1 mg/ml or lot specific conc provided on the vial). Reconstitute powder in PBS to prepare 1 mg/ml solution. Store at -20°C in suitable aliquots. Stability is ~6-12 months. Do not freeze and thaw.

In most applications, Rabbit IgG is used at 0.1-1 ug/ml.

Cat# 20009-F, FITC-conjugate

Purified Rabbit IgG was coupled to FITC at F/P ratio ~5. The antibody is supplied in PBS, pH 7.4, 1% BSA, 40% glycerol 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 1:50-1:500 for immunofluorescence.

Absorption Wavelength: 495 nm
Emission Wavelength: 528 nm

Cat# 20009-B, Biotin-conjugate

Purified Rabbit IgG 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 (100 tests/ ~0.5-1 mg/ml). Reconstitute powder in PBS in 100 ul 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 1:1000-1:10,000 ELISA.

Cat# 20009-HP; HRP-conjugate

Purified Rabbit 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** or **liquid** form (see lot specific conc on the vial). Reconstitute powder in PBS

in 100 ul. 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# 20009-PE, PE-conjugate

Purified Rabbit IgG was coupled to R-Phycoerythrin (R-PE) (Molecular Weight 240,000 daltons) from seaweed using proprietary methods (A565nm/A280nm ~3-4).

Absorption: 490 nm, 545 nm and 565 nm
Emission Wavelength: 580 nm

The conjugate is provided in PBS, pH 7.5, containing 0.1% bovine serum albumin, (BSA) 0.05% sodium azide and stabilizing agent). DO NOT FREEZE. The product should be stored at 4°C and is stable for a minimum of 1 year. Do not store diluted solutions.

Recommended usage is ~5 ul/10⁶ cells for Flow cytometry or FACS. Due to many experimental variations, optimum concn must be determined for a given applications

Recommended Working Dilution for ELISA

Working dilution for the specific application should be determined by the investigator to obtain the best conditions and prepared immediately before use. Diluted solution should be discarded. This product can be used in immunodiffusion, ELISA, flow cytometry, immunofluorescence, or immunolocalization.

This product is for in vitro research use only.

Related Material available for ADI

Catalog#	Prod Description
20009-1	Rabbit IgG, purified (serum non-immune, isotype control)
20009-1-100	Rabbit IgG (-ve control for flow cytometry)
20009-1-200	Rabbit IgG Control Sera
20009-1-FAB	Rabbit IgG Fab fragment, purified
20009-1-FAB2	Rabbit IgG F(ab') ₂ fragment, purified
20009-1-FAB-B	Rabbit IgG Fab-Biotin Conjugate, purified
20009-1-FAB-F	Rabbit IgG Fab-FITC Conjugate, purified
20009-1-FAB-HP	Rabbit IgG Fab-HRP Conjugate, purified
20009-1-FC	Rabbit IgG (Fc) fragment, purified
20009-2-1	Rabbit IgM (isotype control, non-immune), purified
20009-2-1-B	Rabbit IgM-Biotin Conjugate (isotype control, non-immune), purified
20009-2-1-F	Rabbit IgM-FITC Conjugate (isotype control, non-immune), purified
20009-2-1-HP	Rabbit IgM-HRP Conjugate (isotype control, non-immune), purified
20009-25	Rabbit IgG, purified (serum non-immune, isotype control)
20009-5	Rabbit IgG, purified (serum non-immune, isotype control)
20009-AS-1	Rabbit IgG-Agarose conjugate
20009-B	Rabbit IgG (Whole, non-immune)-Biotin conjugate

20009-1-B-F-HP-PE 151203SV

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