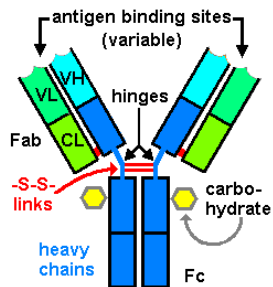


Product Data Sheet

Rabbit IgG Fc and Conjugates (Isotype Controls)

<input type="checkbox"/> Cat# 20009-1-Fc	Rabbit IgG Fc (non-immune), unlabeled (isotype control)	Size: 0.5 mg
<input type="checkbox"/> Cat# 20009-Fc-B	Rabbit IgG Fc (non-immune), Biotin conjugate (isotype control)	Size: 100 ug
<input type="checkbox"/> Cat# 20009-Fc-F	Rabbit IgG Fc (non-immune), FITC conjugate (isotype control)	Size: 100 ug
<input type="checkbox"/> Cat# 20009-Fc-HP	Rabbit IgG Fc (non-immune), HRP conjugate (isotype control)	Size: 100 ug
<input type="checkbox"/> Cat# 20009-Fc-PE	Rabbit IgG Fc (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. An Fc receptor is a protein found on the surface of certain cells –

including, among others, B lymphocytes, follicular dendritic cells, natural killer cells, macrophages, neutrophils, eosinophils, basophils and mast cells – that contribute to the protective functions of the immune system. Its name is derived from its binding specificity for a part of an antibody known as the Fc (Fragment, crystallizable) region. Fc receptors bind to antibodies that are attached to infected cells or invading pathogens. Their activity stimulates phagocytic or cytotoxic cells to destroy microbes, or infected cells by antibody-mediated phagocytosis or antibody-dependent cell-mediated cytotoxicity.

This product was prepared from normal rabbit serum by a multi-step process which includes delipidation, salt fractionation, ion exchange chromatography and papain digestion followed by chromatographic separation and extensive dialysis against the buffer stated above. Assay by immune-electrophoresis resulted in a single precipitin arc against anti-Rabbit Serum, anti-Rabbit IgG and anti-Rabbit IgG F(c). No reaction was observed against anti-Rabbit IgG F(ab')₂ or anti-Papain. Highly purified rabbit Fc (mol wt ~25 kda) 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-Fc, unlabeled



The antibody is supplied in PBS, pH 7.4, and 0.05% azide in either **lyophilized** or **liquid** form (lot specific conc. provided on the vial). Reconstitute powder in PBS to prepare 1 mg/ml solution. Store at -20oC in suitable aliquots. Stability is ~6-12 months. Do not freeze and thaw. In most applications, Rabbit IgG Fc is used at 0.1-1 ug/ml.

Cat# 20009-Fc-F, FITC-conjugate

Purified Rabbit IgG Fc was coupled to FITC at F/P 1% BSA and 0.05% azide at 100 ug/100 ul. Store at -20oC 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

Cat# 20009-Fc-B, Biotin-conjugate

Purified Rabbit IgG Fc 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 -20oC 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# 20009-Fc-HP; HRP-conjugate

Purified Rabbit IgG Fc 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 (PBS, pH 7.4, 1% BSA), 0.1% prolcin-300 as preservative in either **lyophilized** or **liquid** form (see lot sp conc on the vial). Reconstitute powder in PBS in 100 ul. Store at 4oC 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).

The purified antibody 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 4oC and is stable for a minimum of 1 year. Do not store diluted solutions.

Recommended usage 1 test equivalent of antibody per million 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-FAb2-F	Rabbit IgG F(ab') ₂ -FITC conjugate, isotype control
20009-1-FAB	Rabbit IgG Fab fragment, purified
20009-1-FAB2	Rabbit IgG F(ab') ₂ fragment, purified
20009-FAb2-B	Rabbit IgG F(ab') ₂ -biotin conjugate, isotype control
20119	Anti-Rabbit IgG (Fc-region) unlabeled, aff pure
20120	Anti-Rabbit IgG (Fc-region)-HRP conjugate
20009-1-200	Rabbit IgG Control Sera
6520	Rabbit IgG ELISA Kit, 96 tests, Quantitative
20331	Anti-Rabbit IgG (H+L)-Rhodamine/TRITC conjugate, aff. pure
20150	Anti-Rabbit IgG (Fc-region)-AP conjugate
20009-Fc-PE	Rabbit IgG F(c)-R-PE conjugate, isotype control
20318-100	Anti-Rabbit IgG (H+L chain) Antiserum, bulk size
20318-1000	Anti-Rabbit IgG (H+L chain) Antiserum, bulk size
20009-1-FC-B-HP-PE	151117SV

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