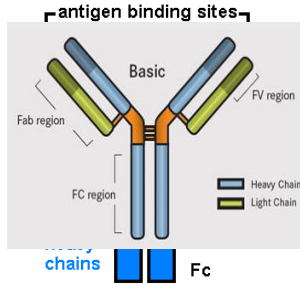


Human IgG Isotype Control and Conjugates

- Cat# 20007-F-LE-100**
- Cat# 20007-F-LE-BTN**

Human IgG-Fc fragment (97%, low endotoxin, azide free) **Size: 0.1 mg**
 Human IgG-Fc fragment-Biotin (97%, low endotoxin, azide free) **Size: 25 ug**



Immunoglobulin G (IgG)

The 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 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 immunoelectrophoresis resulted in a single precipitin arc against anti- Human Serum, anti-Human IgG and anti-Human IgG F(c). No reaction was observed against anti-Human IgG F(ab')₂ or anti-Papain.

Cat# 20007-F-LE-100, unlabeled

Human IgG (Fc) fragment is provided as liquid or in lyophilized form. 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. 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

Suggested Uses

This preparation is suitable for coating the ELISA plates or as a nonimmune control for ELISA, dot blot, Western or IHC. 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 Human or vendor may alleviate this problem

Cat# 20007-F-LE-BTN, Biotin-conjugate

Purified Human 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, 0.1% BSA 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 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. 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.

Related Material available for ADI

Catalog#	ProdDescription
20007-1-1	Human IgG, purified (serum, non-immune, isotype control)
20007-1-B	Human IgG-Biotin conjugate (isotype control, non-immune), purified
20007-1-F	Human IgG-FITC conjugate (isotype control, non-immune), purified
20007-1-FAB	Human IgG Fab fragment, purified
20007-1-FAB2	Human IgG F(ab') ₂ fragment, purified
20007-1-FAB2-B	Human IgG Fab2 fragment-Biotin Conjugate, purified
20007-1-FAB2-F	Human IgG Fab2 fragment-FITC Conjugate, purified
20007-1-FAB2-HP	Human IgG Fab2 fragment-HRP Conjugate, purified
20007-1-FAB-B	Human IgG Fab fragment-Biotin Conjugate, purified
20007-1-FAB-F	Human IgG Fab fragment-FITC Conjugate, purified
20007-1-FAB-HP	Human IgG Fab fragment-HRP Conjugate, purified
20007-1-FC	Human IgG (Fc) fragment, purified
20007-1-Fc-B	Human IgG Fc-Biotin conjugate (isotype control, non-immune), purified
20007-1-Fc-F	Human IgG Fc-FITC conjugate (isotype control, non-immune), purified
20007-1-Fc-HP	Human IgG Fc-HRP conjugate (isotype control, non-immune), purified
20007-1-HP	Human IgG-HRP Conjugate (isotype control)
20007-F100	Human IgG-Fc fragment purified (isotype control)
20007-F1000	Human IgG-Fc fragment purified (isotype control)
20007-G3-1	Human IgG3, Myeloma Plasma
20007-G3-1P	Human IgG3, Native Plasma
20007-G3-B	Human IgG3-Biotin Conjugate (-ve control)
20007-G3-F	Human IgG3-FITC Conjugate (-ve control)
20007-G3-H	Human IgG3-HRP Conjugate (-ve control)

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