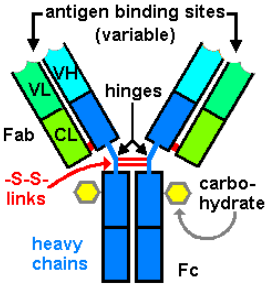
ALPHA DIAGNOSTIC INTERNATIONAL

Product Data Sheet

Cat # 20007-G2-1	**Human IgG2, Myeloma Plasma**	**Size:** 1 mg
Cat # 20007-G2-B	**Human IgG2-Biotin Conjugate (-ve control)**	**Size:** 100 ug
Cat # 20007-G2-F	**Human IgG2-FITC Conjugate (-ve control)**	**Size:** 100 ug
Cat # 20007-G2-H	**Human IgG2-HRP Conjugate (-ve control)**	**Size:** 100 ug



Immunoglobulin G (IgG)

Immunoglobulins belong to a large group of related glyco-proteins that make up approximately 20% of the serum proteins. The serum immunoglobulins react with antigens and confer immunity to individuals. All immunoglobulins share the basic structure of: 2 identical heavy chains joined by disulfide bonds to 2 identical light chains. Both the heavy (H) chains and the light (L) chains are divided into constant and variable regions. The constant regions have similar amino acid composition between all the immunoglobulin classes while the variable regions encompasses about 110 amino acids characterized by a high degree or sequence variability.

IgG is further subdivided into 4 subclasses (IgG1, IgG2, IgG3, IgG4) with ~95% homology. There are 2 subclasses of IgA. IgG and IgA exists in serum as a monomer consisting of a single 4-polypeptide unit. IgM exists in serum as a pen tamer.

It is important to measure the level of immunoglobulins in serum for Antibody deficiency conditions, such as Primary hypogammagobulinaemia, or other immune deficiency diseases such as AIDS. When evaluating patients with recurrent infections, suspected immunodeficiency, allergic disease and many other conditions, it may be necessary to quantify the levels of immunoglobulins.

Form and Storage

Cat# 20007-G2-1, unlabeled

The antibody is supplied in PBS, pH 7.4, and 0.05% azide in either lyophilized or liquid form. Reconstitute powder in PBS to prepare stock solution. Store at -20oC in suitable aliquots. Stability is ~6-12 months. Do not freeze and thaw.

Cat# 20007-G2-F, FITC-conjugate

Purified antibody was coupled to FITC at F/P ratio ~5. The antibody is supplied in PBS, pH 7.4, 0.1% BSA. 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# 20007-G2-B, 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. Reconstitute powder in water to make stock solution. Store at -20oC in suitable aliquots. Stability is ~6-12 months. Do not freeze and thaw.

Suggested conjugate dilutions are 1:5,00-1: 5,000 ELISA.

Cat# 20007-G2-H, 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% prolcin-300 as preservative in, either lyophilized. Reconstitute powder in 0.5 ml water to make stock solution. Store at 4oC in suitable aliquots. Stability is ~6-12 months. Do not freeze and thaw.

Suggested conjugate dilutions are 1:5,00-1: 5,000 ELISA.

Suggested Uses

This preparation IgG is suitable for ELISA, Western or other assays requiring purified IgG2. is approx. 5 ul test or 1 ug/test. Optimal concentration should be tested and adjusted if necessary.

This product is for in vitro research use only.

Related Items available from ADI

Catalog#	Prod Description
10122	Anti-Human IgG2 (Fc-region)-HRP conjugate
10122-AP	Anti-Human IgG2 (Fc-region)-AP conjugate
10122-BT	Anti-Human IgG2 (Fc-region)-Biotin conjugate
10122-FITC	Anti-Human IgG2 (Fc-region)-FITC conjugate
10122-PE	Anti-Human IgG2 (Fc-region)-PE (phycoerythrin) conjugate
10122-UL	Anti-Human IgG2 (Fc-region) aff pure, unlabeled
1720	Human IgG2 ELISA, 96 tests, Quantitative
20007-G2-1	Human IgG2, Myeloma Plasma
20007-G2-B	Human IgG2-Biotin Conjugate (-ve control)
20007-G2-F	Human IgG2-FITC Conjugate (-ve control)
20007-G2-H	Human IgG2-HRP Conjugate (-ve control)

20007-G2-1-Human-IgG2 261104 170322SV

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